PCB Sample Results Summary

Sample.....: 17154104
Data File....: M041717a10.D
Project.....: OCE-009D
Matrix.....: 42 - Wipe
Analyzed.....: 04/17/2017 19:27
Type.....: 0
Additional Info..: Sky Valley PCB Wipe 10mL fv
DP Method Path...: J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Datafile Path....: J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\M041717a10.D

Date Prepped...: 4/17/2017
ICAL Date.....: 03/21/2017
Prep Method....: 3580A
Analysis Method: 8082A
Quant Column...: 1

Prepped By.: DWOOD
Analyst....: DWOOD
CID.....: N1
Acq. Method: M012116PCB2B.M
ASEQ Number: 10

Instrument.....: Minerva
Amount Extracted.: 40 wipe
Percent Solids...: NA
Final Volume.....: 10 mL
Dilution.....: 1x D0

m = manual integration
d = deleted
U = Undetected
J = Below calibrated range
E = Exceeds calibrated range

Pk	Low Cal (pg)[1]	High Cal (pg)[1]	Compound Name	RT	Exp RT	Response		Spike (pg)[1]	Amount (pg)[1]	Result Units	Q
1	2.5	250	tmx (1)	6.98	6.99	1090350		50	41	82 %Rec	
12	2.5	250	dcb	17.77	17.79	638265		50	43	85 %Rec	
14	2.5	250	tmx (1) #2	4.80	4.80	1905780		50	46	92 %Rec	
25	2.5	250	dcb #2	13.28	13.28	1088750		50	46	91 %Rec	
2	25	1000	1016 -1	-	-	-	d	-	-	0.25 ug (RL)	U
3	25	1000	1016-2	-	-	-	d	-	-	0.25 ug (RL)	U
4	25	1000	1016-3	-	-	-		-	-	0.25 ug (RL)	U
5	25	1000	1016-4	-	-	-		-	-	0.25 ug (RL)	U
6	25	1000	1016-5	-	-	-		-	-	0.25 ug (RL)	U
7	25	1000	1260-1	-	-	-	d	-	-	0.25 ug (RL)	U
8	25	1000	1260-2	-	-	-	d	-	-	0.25 ug (RL)	U
9	25	1000	1260-3	-	-	-	d	-	-	0.25 ug (RL)	U
10	25	1000	1260-4	-	-	-	d	-	-	0.25 ug (RL)	U
11	25	1000	1260-5	-	-	-	d	-	-	0.25 ug (RL)	U
15	25	1000	1016 -1 #2	-	-	-	d	-	-	0.25 ug (RL)	U
16	25	1000	1016-2 #2	-	-	-	d	-	-	0.25 ug (RL)	U
17	25	1000	1016-3 #2	-	-	-		-	-	0.25 ug (RL)	U
18	25	1000	1016-4 #2	-	-	-		-	-	0.25 ug (RL)	U
19	25	1000	1016-5 #2	-	-	-		-	-	0.25 ug (RL)	U
20	25	1000	1260-1 #2	-	-	-	d	-	-	0.25 ug (RL)	U
21	25	1000	1260-2 #2	-	-	-	d	-	-	0.25 ug (RL)	U
22	25	1000	1260-3 #2	-	-	-	d	-	-	0.25 ug (RL)	U
23	25	1000	1260-4 #2	-	-	-	d	-	-	0.25 ug (RL)	U
24	25	1000	1260-5 #2	-	-	-	d	-	-	0.25 ug (RL)	U

CAS#	Name	Avg	Unit	n	%RSD	Column RPD[2]
12674112	1016 Column 1	0.25	ug (RL)	0	NA	Results will be reported from Column 1
12674112	1016 Column 2	0.25	ug (RL)	0	NA	
11096825	1260 Column 1	0.25	ug (RL)	0	NA	
11096825	1260 Column 2	0.25	ug (RL)	0	NA	

[1]'Amount' units are pg or pg/uL on column. [2]RPD (Relative Percent Difference) is the percent difference between the result of column 1 and the result of column 2. The values are calculated using the non-rounded average result values. (|A-B|/((A+B)*0.5))*100 is the formula used for the calculation. The value should nominally be <= 40%.

Sample Concentration = (Amt)*(Final Volume[mL])*(Dilution)/Amount Extracted = ug/L, ug/kg, ug/g, or ug.

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\
Data File : M041717a10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Apr 2017 7:27 pm
Operator : DWOOD
Sample : 17154104
Misc : Sky Valley PCB Wipe 10mL fv
ALS Vial : 0 (Sig #1); 10 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 14:55:58 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32
Signal #2 Phase: CLPest2
Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	6.979	4.798	1090351	1905778	40.896	45.792
12) S2 dcb	17.765	13.279	638265	1088754	42.666	45.506
Target Compounds						
2) L1 1016 -1	0.000	0.000	0	0	N.D. d	N.D. d
3) L1 1016-2	0.000	0.000	0	0	N.D. d	N.D. d
4) L1 1016-3	0.000	0.000	0	0	N.D.	N.D.
5) L1 1016-4	0.000	0.000	0	0	N.D.	N.D.
6) L1 1016-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1016 -1			0	0	N.D.	N.D.
Average 1016 -1					0.000	0.000
7) L2 1260-1	0.000	0.000	0	0	N.D. d	N.D. d
8) L2 1260-2	0.000	0.000	0	0	N.D. d	N.D. d
9) L2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
10) L2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
11) L2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

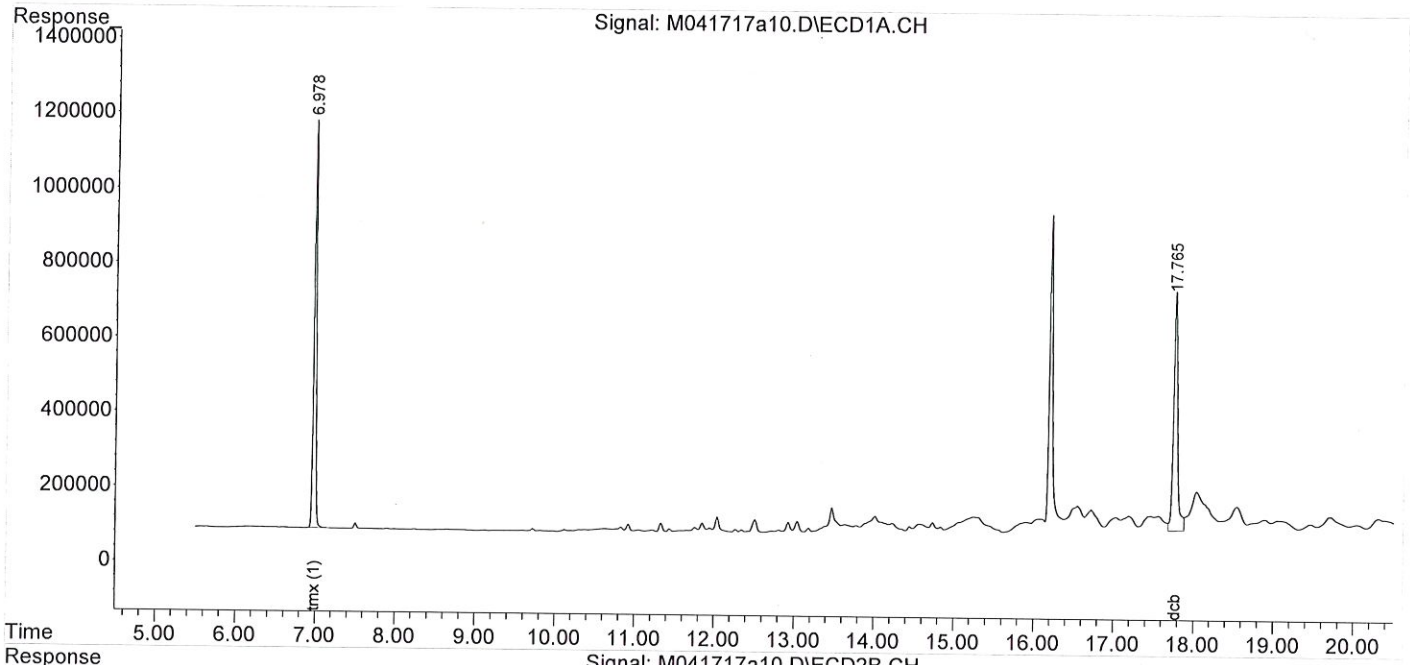
lw
4/24/17

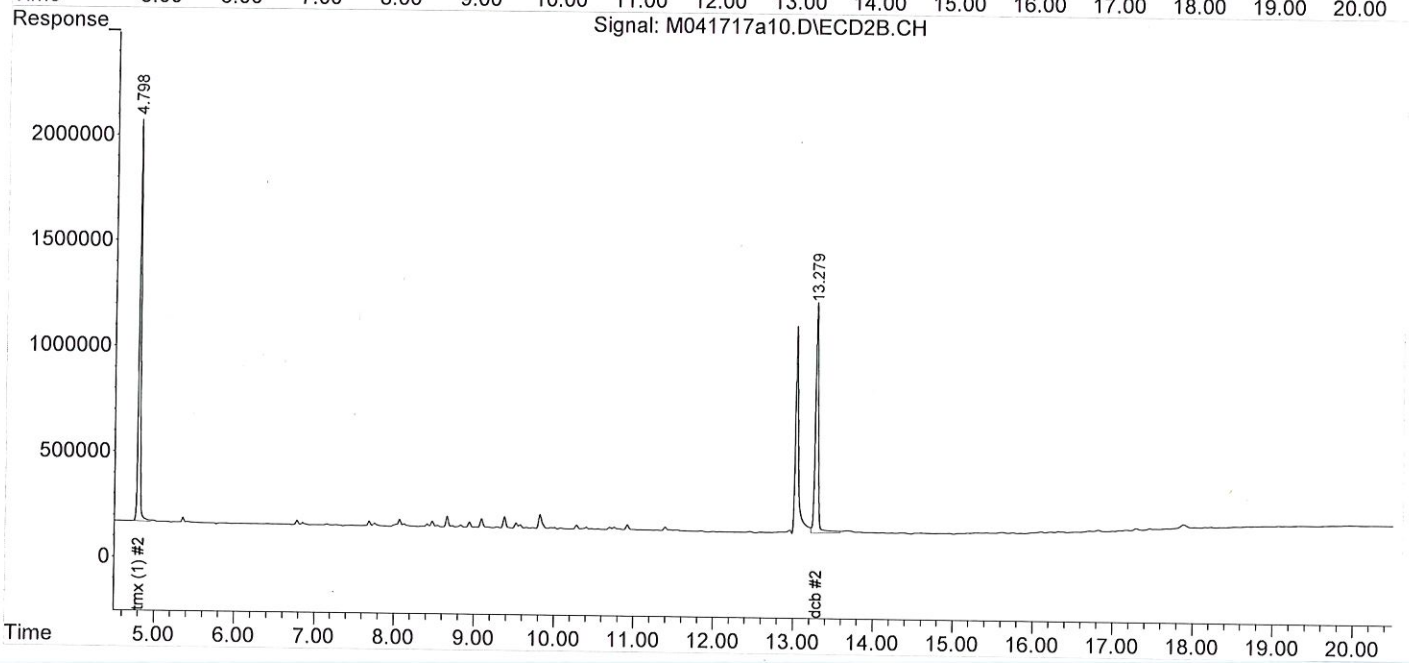
Quantitation Report (QT Reviewed)

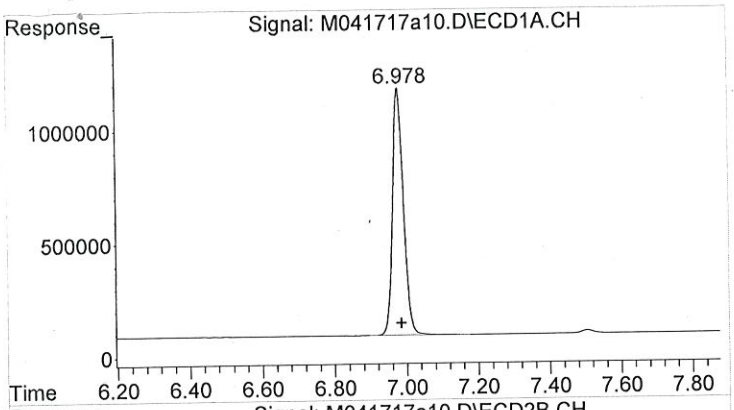
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\
Data File : M041717a10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Apr 2017 7:27 pm
Operator : DWOOD
Sample : 17154104
Misc : Sky Valley PCB Wipe 10mL fv
ALS Vial : 0 (Sig #1); 10 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 14:55:58 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

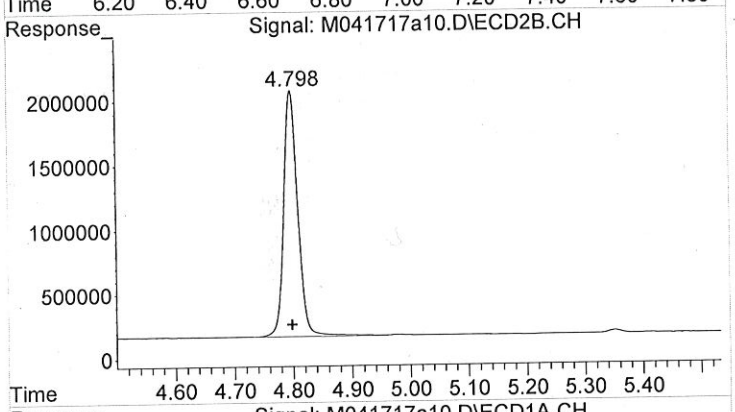






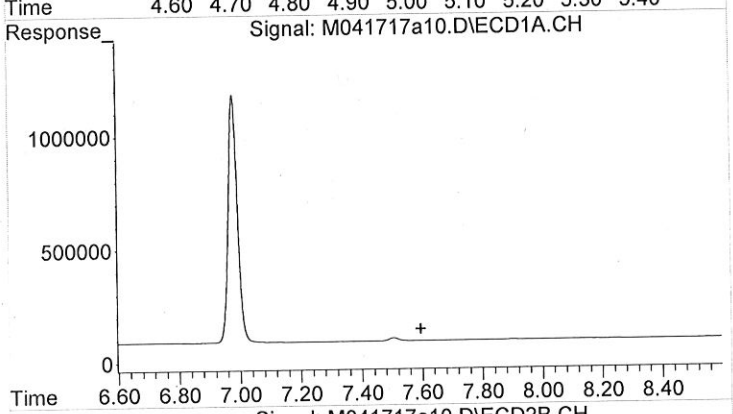
#1 tmx (1)

R.T.: 6.979 min
Delta R.T.: -0.007 min
Response: 1090351
Conc: 40.90 pg/uL



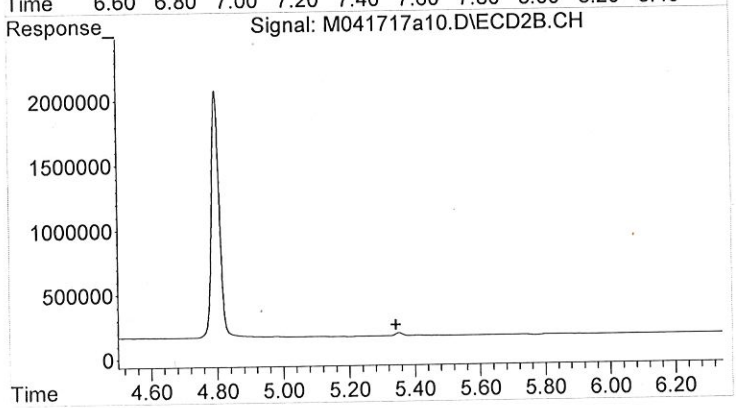
#1 tmx (1)

R.T.: 4.798 min
Delta R.T.: 0.000 min
Response: 1905778
Conc: 45.79 pg/uL



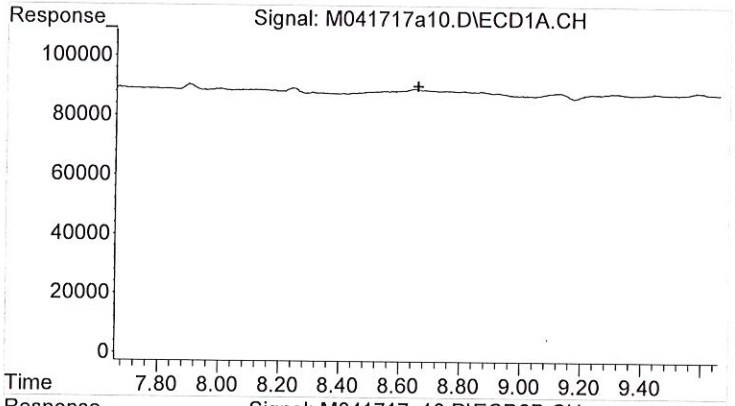
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 7.596 min
Response: 0
Conc: N.D.



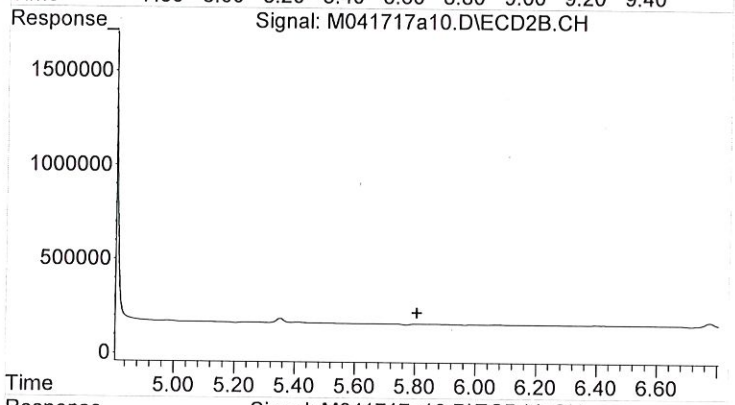
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 5.343 min
Response: 0
Conc: N.D.



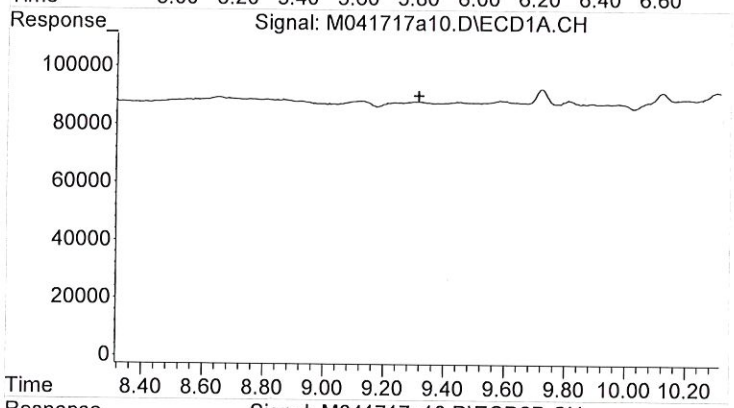
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 8.659 min
Response: 0
Conc: N.D.



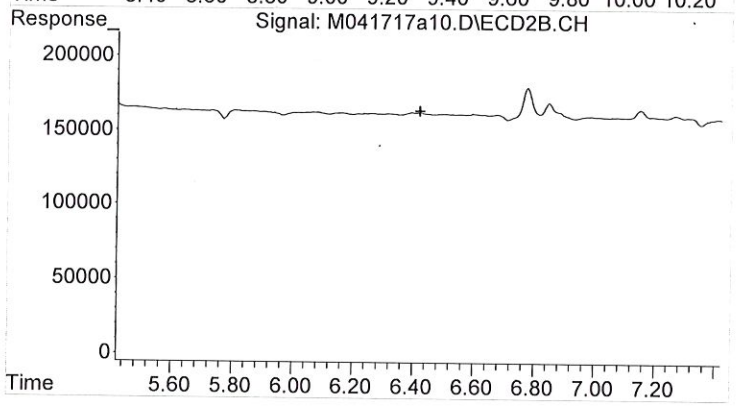
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 5.807 min
Response: 0
Conc: N.D.



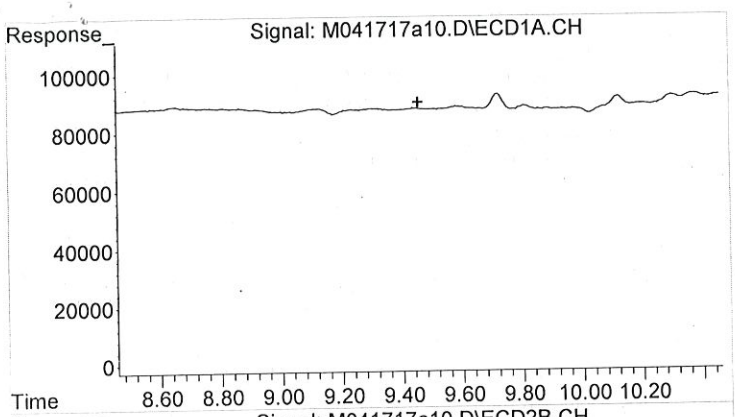
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 9.314 min
Response: 0
Conc: N.D.



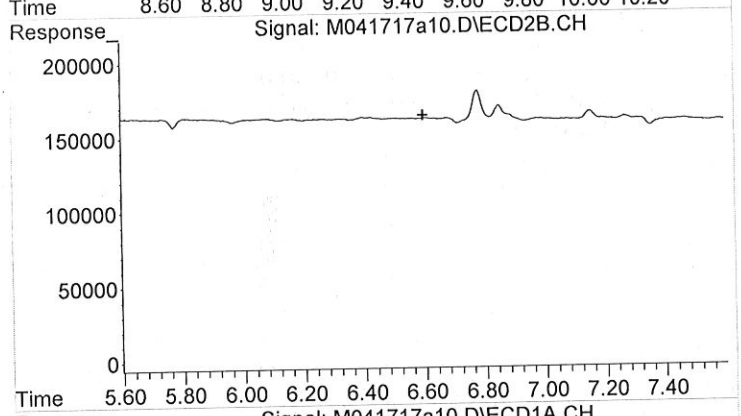
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 6.421 min
Response: 0
Conc: N.D.



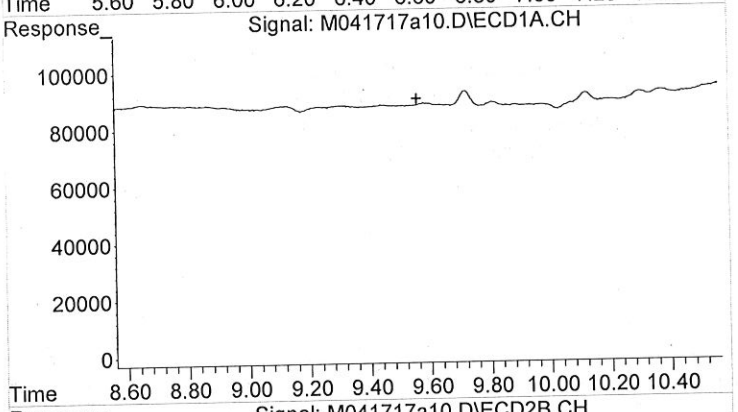
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 9.457 min
Response: 0
Conc: N.D.



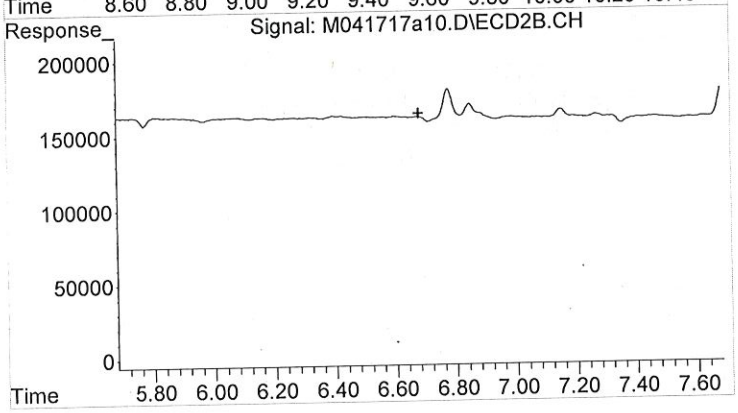
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 6.596 min
Response: 0
Conc: N.D.



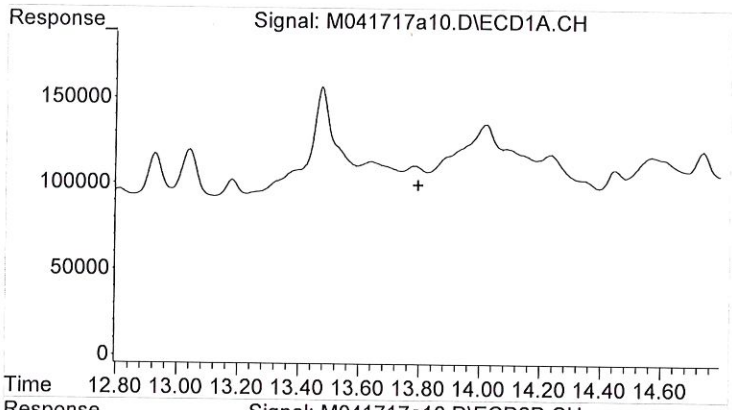
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 9.560 min
Response: 0
Conc: N.D.



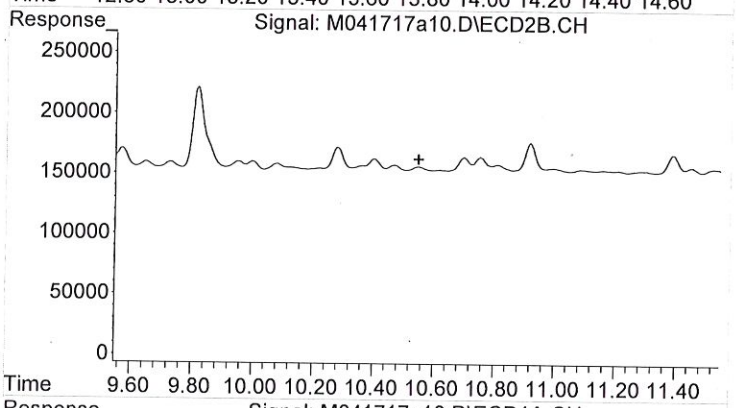
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 6.680 min
Response: 0
Conc: N.D.



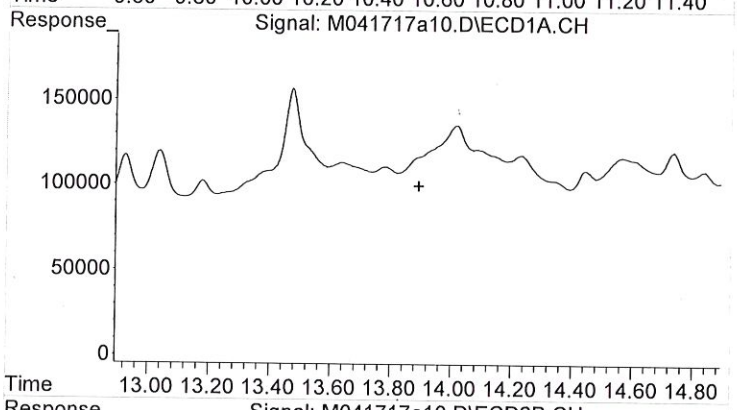
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 13.794 min
Response: 0
Conc: N.D.



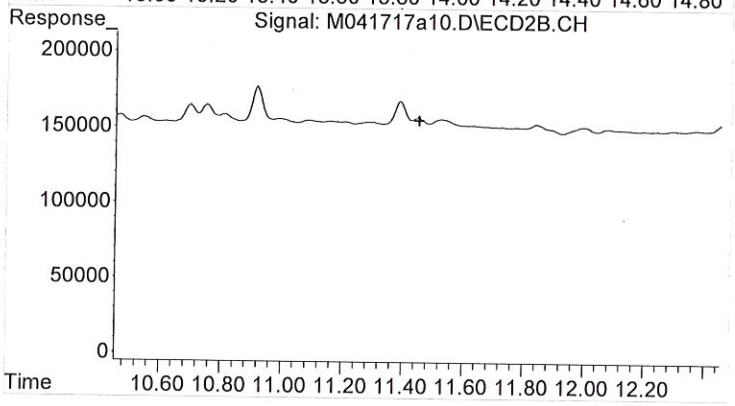
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 10.548 min
Response: 0
Conc: N.D.



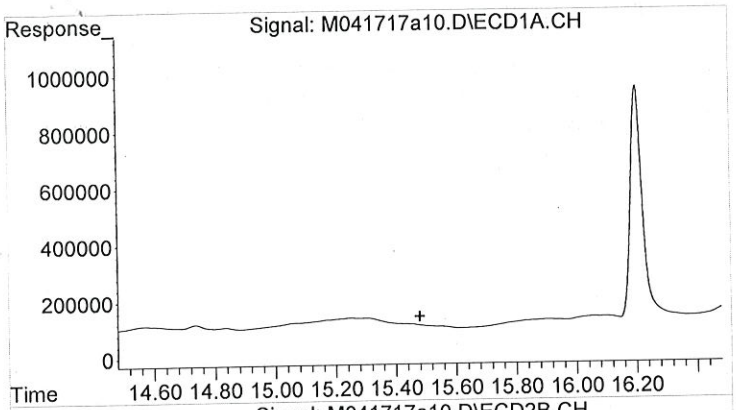
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 13.893 min
Response: 0
Conc: N.D.



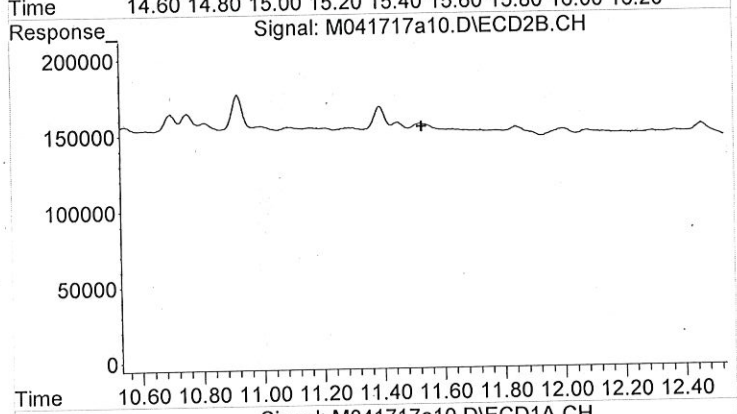
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 11.454 min
Response: 0
Conc: N.D.



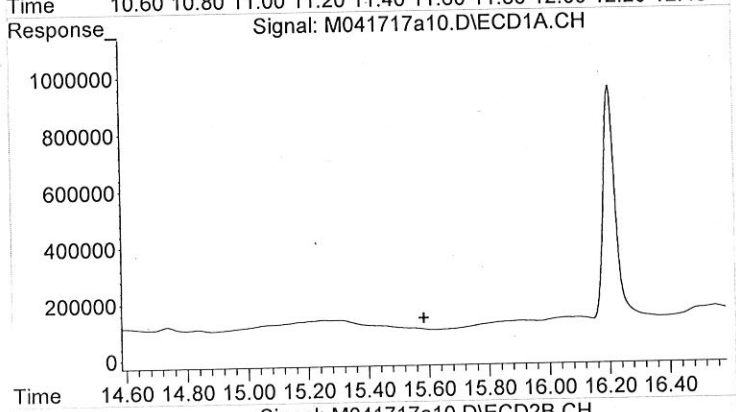
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 15.480 min
Response: 0
Conc: N.D.



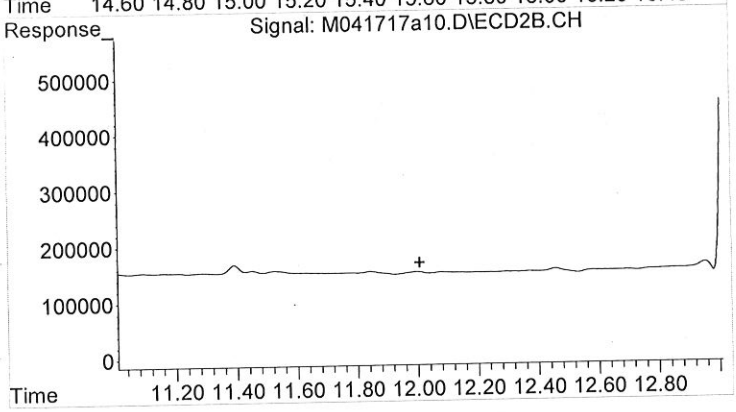
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 11.531 min
Response: 0
Conc: N.D.



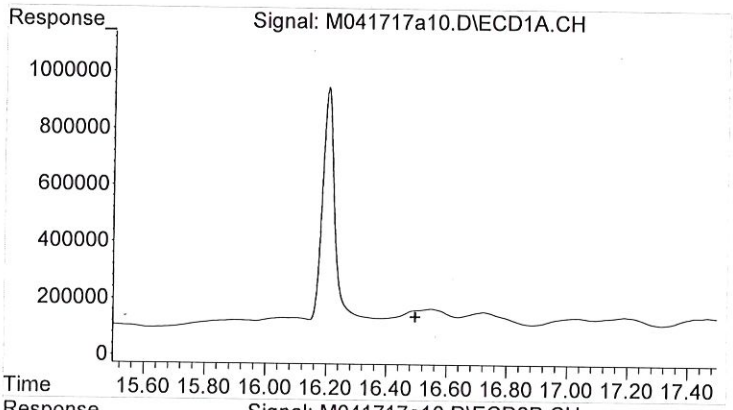
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 15.584 min
Response: 0
Conc: N.D.



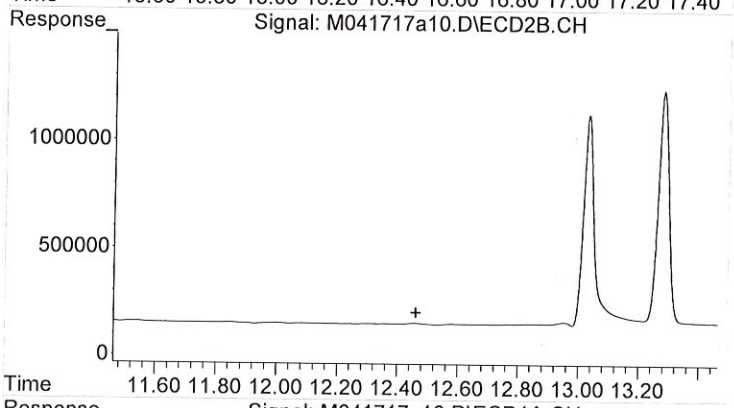
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 12.008 min
Response: 0
Conc: N.D.



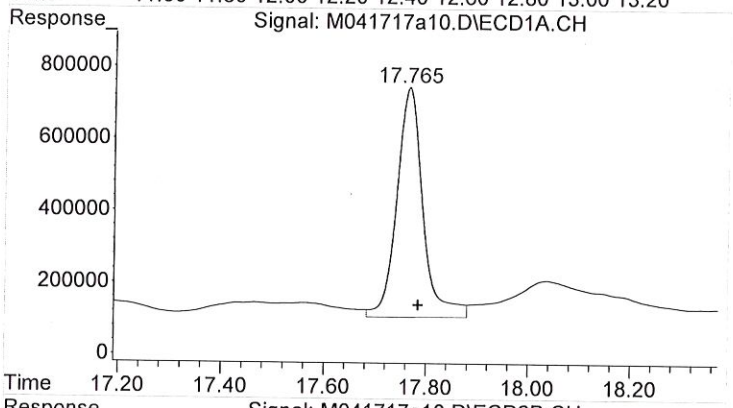
#11 1260-5

R.T.: 0.000 min
Exp R.T. : 16.497 min
Response: 0
Conc: N.D.



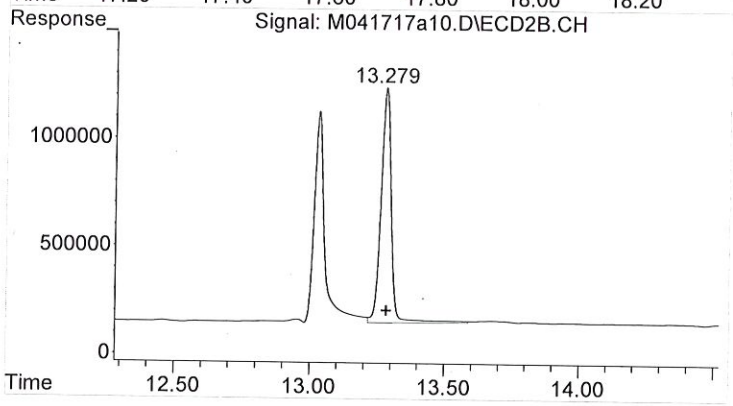
#11 1260-5

R.T.: 0.000 min
Exp R.T. : 12.463 min
Response: 0
Conc: N.D.



#12 dcb

R.T.: 17.765 min
Delta R.T.: -0.020 min
Response: 638265
Conc: 42.67 pg/uL



#12 dcb

R.T.: 13.279 min
Delta R.T.: -0.005 min
Response: 1088754
Conc: 45.51 pg/uL

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\
Data File : M041717a10.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Apr 2017 19:27 pm
Operator : DWOOD
Sample : 17154104
Misc : Sky Valley PCB Wipe 10mL fv
ALS Vial : 0 (Sig #1); 10 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 14:03:50 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32
Signal #2 Phase: CLPest2
Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	6.979	4.798	1090351	1905778	40.896	45.792
12) S2 dcb	17.765	13.279	638265	1088754	42.666	45.506
Target Compounds						
2) L1 1016 -1	0.000	5.352	0	26255	N.D.	27.394 #
3) L1 1016-2	0.000	5.805	0	5509	N.D.	0.977 #
4) L1 1016-3	0.000	0.000	0	0	N.D.	N.D.
5) L1 1016-4	0.000	0.000	0	0	N.D.	N.D.
6) L1 1016-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1016 -1			0	31764	N.D.	28.371
Average 1016 -1					0.000	14.186
7) L2 1260-1	13.784	10.545	17816	6624	6.440	17.918 #
8) L2 1260-2	0.000	11.450	0	8903	N.D.	8.598 #
9) L2 1260-3	0.000	11.525	0	8220	N.D.	11.887 #
10) L2 1260-4	0.000	12.000	0	4412	N.D.	12.852 #
11) L2 1260-5	16.549f	12.457	67957	7608	108.504	9.698 #
Sum 1260-1			85773	35767	114.944	60.955
Average 1260-1					57.472	12.191

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

4/24/17

PCB

PCB Sample Results Summary

Sample.....: 17154105
Data File....: M041717a11.D
Project.....: OCE-009D
Matrix.....: 42 - Wipe
Analyzed.....: 04/17/2017 19:52
Type.....: 0

Date Prepped...: 4/17/2017
ICAL Date.....: 03/21/2017
Prep Method....: 3580A
Analysis Method: 8082A
Quant Column...: 1

Prepped By.: DWOOD
Analyst....: DWOOD
CID.....: N1
Acq. Method: M012116PCB2B.M
ASEQ Number: 11

Instrument.....: Minerva
Amount Extracted.: 40 wipe
Percent Solids...: NA
Final Volume.....: 10 mL
Dilution.....: 1x D0

Additional Info..: Sky Valley PCB Wipe 10mL fv
DP Method Path...: J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Datafile Path....: J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\M041717a11.D

m = manual integration
d = deleted
U = Undetected
J = Below calibrated range
E = Exceeds calibrated range

Pk	Low Cal (pg)[1]	High Cal (pg)[1]	Compound Name	RT	Exp RT	Response		Spike (pg)[1]	Amount (pg)[1]	Result Units	Q
1	2.5	250	tmx (1)	6.98	6.99	1062760		50	40	80 %Rec	
12	2.5	250	dcb	17.76	17.79	593546		50	40	79 %Rec	
14	2.5	250	tmx (1) #2	4.80	4.80	1873410		50	45	90 %Rec	
25	2.5	250	dcb #2	13.28	13.28	1079970		50	45	90 %Rec	
2	25	1000	1016 -1	-	-	-	d	-	-	0.25 ug (RL)	U
3	25	1000	1016-2	-	-	-		-	-	0.25 ug (RL)	U
4	25	1000	1016-3	-	-	-	d	-	-	0.25 ug (RL)	U
5	25	1000	1016-4	-	-	-		-	-	0.25 ug (RL)	U
6	25	1000	1016-5	-	-	-		-	-	0.25 ug (RL)	U
7	25	1000	1260-1	-	-	-		-	-	0.25 ug (RL)	U
8	25	1000	1260-2	-	-	-		-	-	0.25 ug (RL)	U
9	25	1000	1260-3	-	-	-	d	-	-	0.25 ug (RL)	U
10	25	1000	1260-4	-	-	-	d	-	-	0.25 ug (RL)	U
11	25	1000	1260-5	-	-	-	d	-	-	0.25 ug (RL)	U
15	25	1000	1016 -1 #2	-	-	-	d	-	-	0.25 ug (RL)	U
16	25	1000	1016-2 #2	-	-	-		-	-	0.25 ug (RL)	U
17	25	1000	1016-3 #2	-	-	-	d	-	-	0.25 ug (RL)	U
18	25	1000	1016-4 #2	-	-	-		-	-	0.25 ug (RL)	U
19	25	1000	1016-5 #2	-	-	-		-	-	0.25 ug (RL)	U
20	25	1000	1260-1 #2	-	-	-		-	-	0.25 ug (RL)	U
21	25	1000	1260-2 #2	-	-	-		-	-	0.25 ug (RL)	U
22	25	1000	1260-3 #2	-	-	-	d	-	-	0.25 ug (RL)	U
23	25	1000	1260-4 #2	-	-	-	d	-	-	0.25 ug (RL)	U
24	25	1000	1260-5 #2	-	-	-	d	-	-	0.25 ug (RL)	U

CAS#	Name	Avg	Unit	n	%RSD	Column RPD[2]
12674112	1016 Column 1	0.25	ug (RL)	0	NA	Results will be reported from Column 1
12674112	1016 Column 2	0.25	ug (RL)	0	NA	
11096825	1260 Column 1	0.25	ug (RL)	0	NA	
11096825	1260 Column 2	0.25	ug (RL)	0	NA	

[1]'Amount' units are pg or pg/uL on column. [2]RPD (Relative Percent Difference) is the percent difference between the result of column 1 and the result of column 2. The values are calculated using the non-rounded average result values. (|A-B|/((A+B)*0.5))*100 is the formula used for the calculation. The value should nominally be <= 40%.

Sample Concentration = (Amt)*(Final Volume[mL])*(Dilution)/Amount Extracted = ug/L, ug/kg, ug/g, or ug.

Generated Tue Apr 25 10:01:39 2017

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\
Data File : M041717a11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Apr 2017 7:52 pm
Operator : DWOOD
Sample : 17154105
Misc : Sky Valley PCB Wipe 10mL fv
ALS Vial : 0 (Sig #1); 11 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 14:56:33 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32
Signal #2 Phase: CLPest2
Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	6.979	4.799	1062764	1873408	39.848	44.999
12) S2 dcb	17.763	13.280	593546	1079972	39.588	45.138
Target Compounds						
2) L1 1016 -1	0.000	0.000	0	0	N.D. d	N.D. d
3) L1 1016-2	0.000	0.000	0	0	N.D.	N.D.
4) L1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
5) L1 1016-4	0.000	0.000	0	0	N.D.	N.D.
6) L1 1016-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1016 -1			0	0	N.D.	N.D.
Average 1016 -1					0.000	0.000
7) L2 1260-1	0.000	0.000	0	0	N.D.	N.D.
8) L2 1260-2	0.000	0.000	0	0	N.D.	N.D.
9) L2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
10) L2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
11) L2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

hw
4/24/17

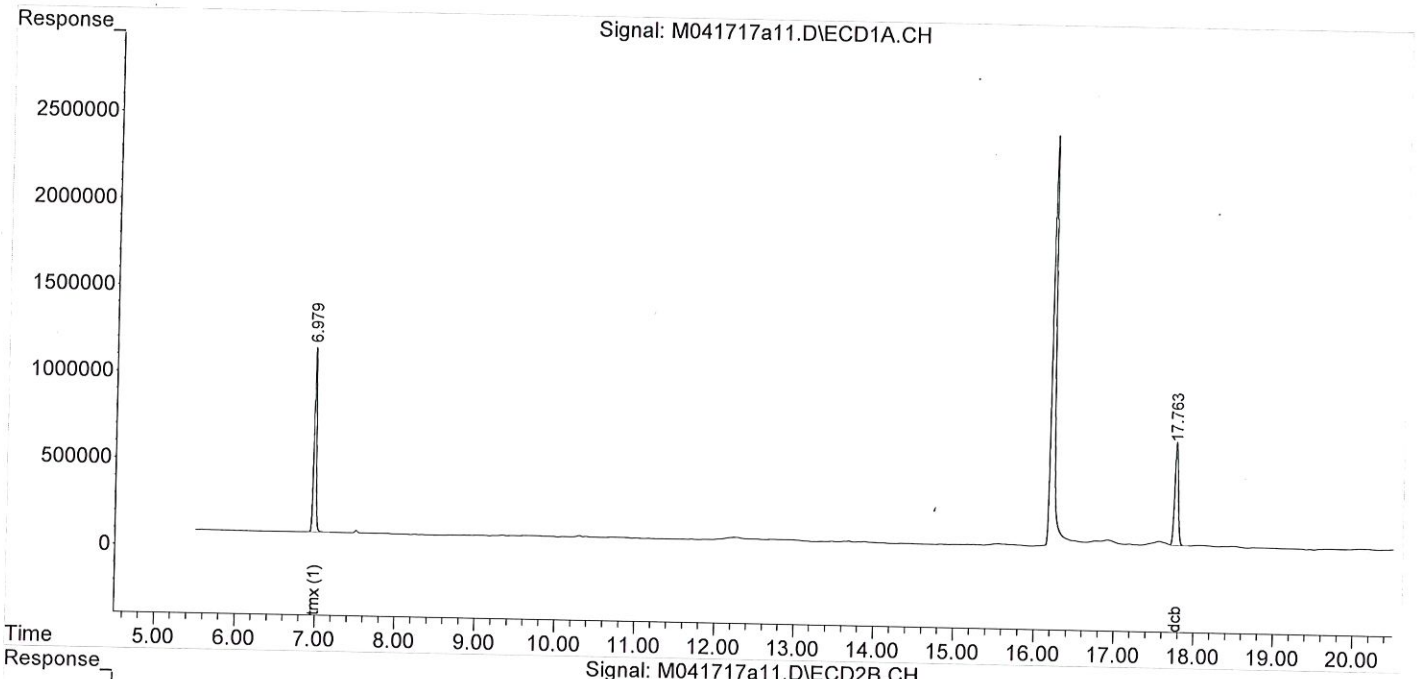
Quantitation Report (QT Reviewed)

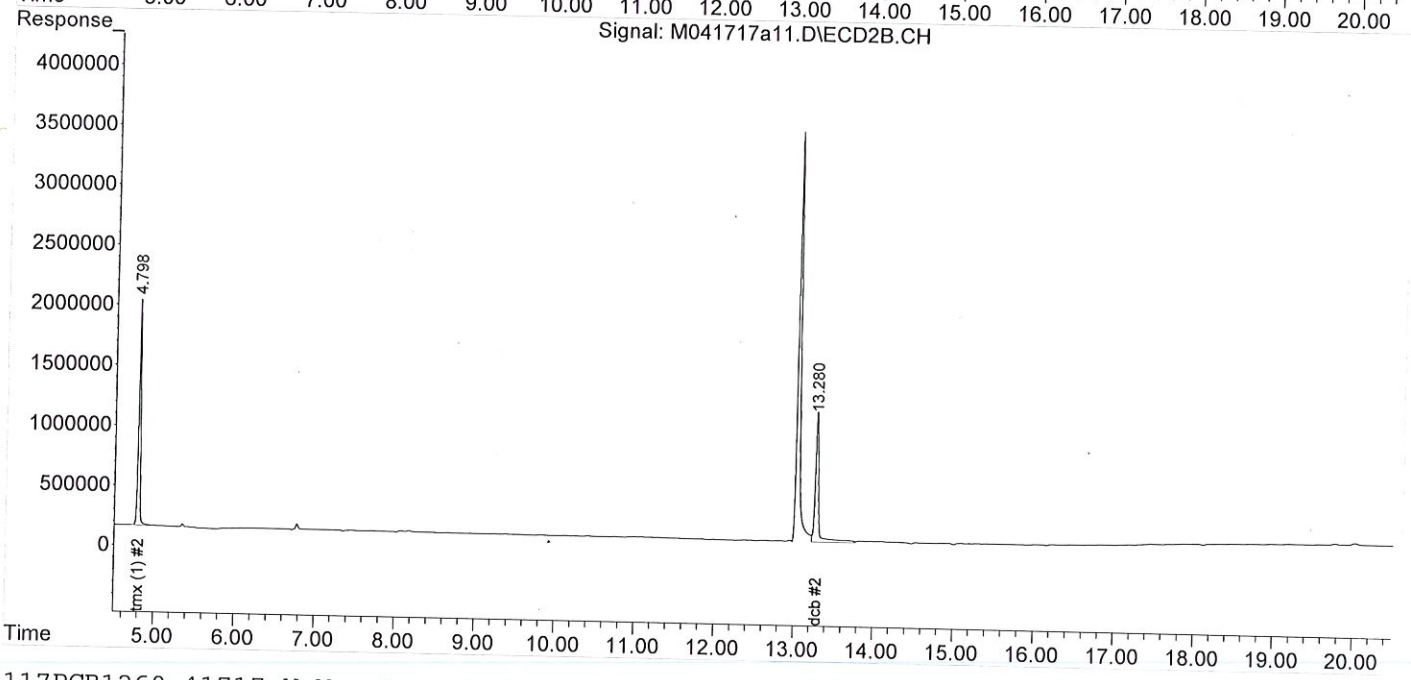
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\
Data File : M041717a11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Apr 2017 7:52 pm
Operator : DWOOD
Sample : 17154105
Misc : Sky Valley PCB Wipe 10mL fv
ALS Vial : 0 (Sig #1); 11 (Sig #2) Sample Multiplier: 1

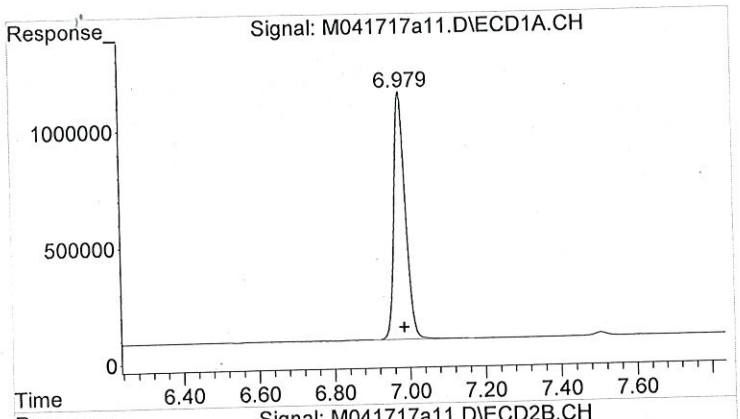
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 14:56:33 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32

Signal #2 Phase: CLPest2
Signal #2 Info : .32

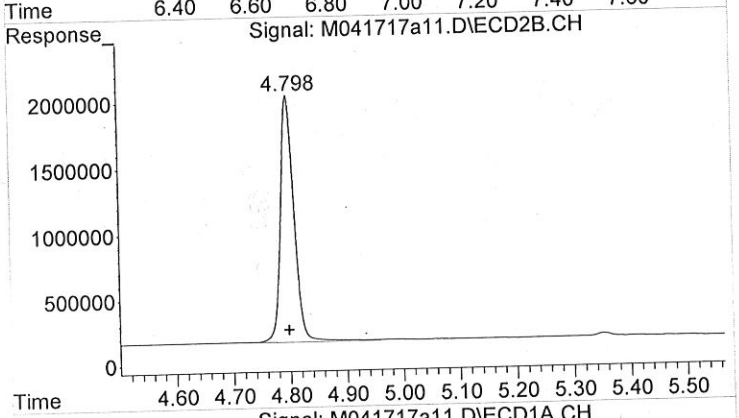






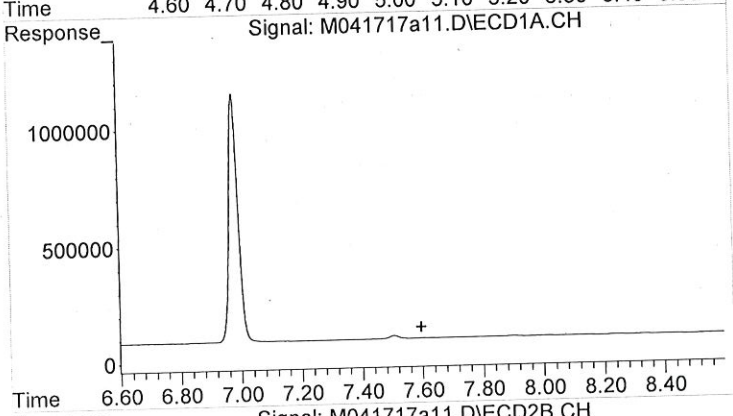
#1 tmx (1)

R.T.: 6.979 min
Delta R.T.: -0.007 min
Response: 1062764
Conc: 39.85 pg/uL



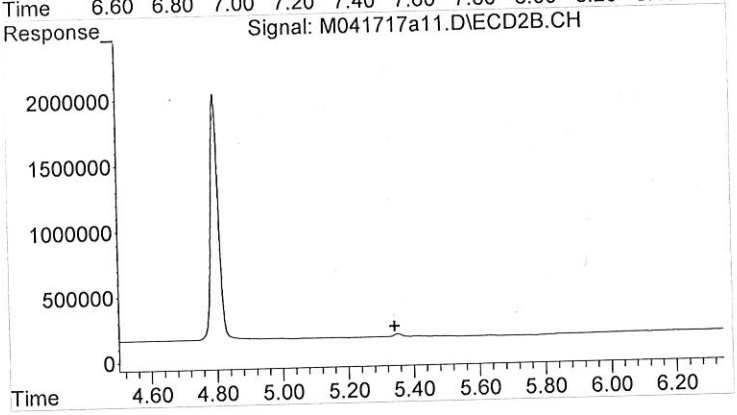
#1 tmx (1)

R.T.: 4.799 min
Delta R.T.: 0.000 min
Response: 1873408
Conc: 45.00 pg/uL



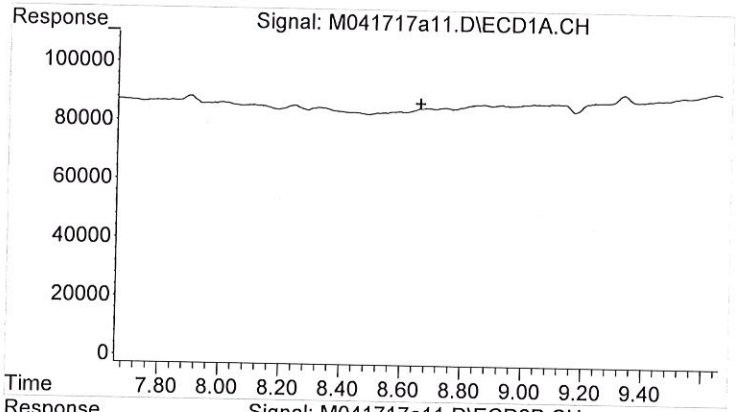
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 7.596 min
Response: 0
Conc: N.D.



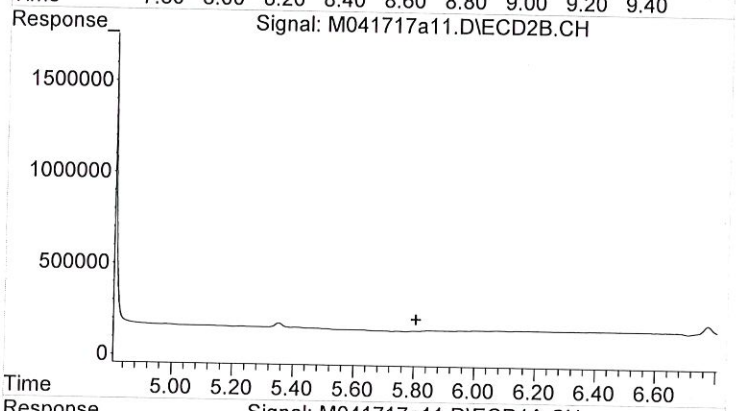
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 5.343 min
Response: 0
Conc: N.D.



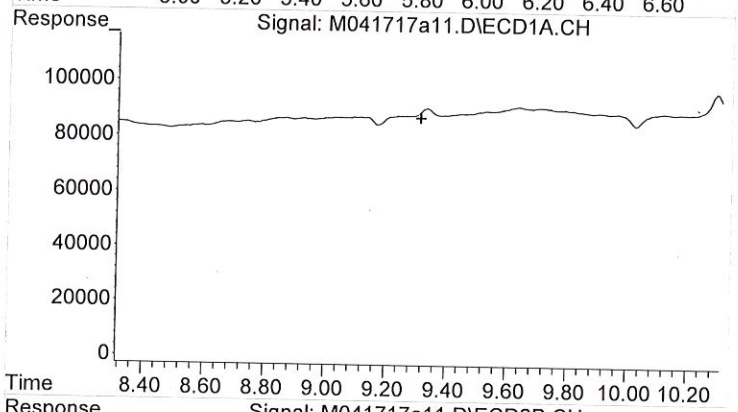
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 8.659 min
Response: 0
Conc: N.D.



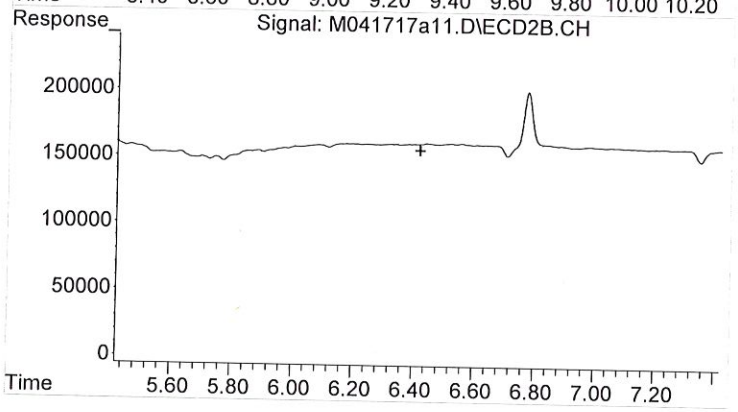
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 5.807 min
Response: 0
Conc: N.D.



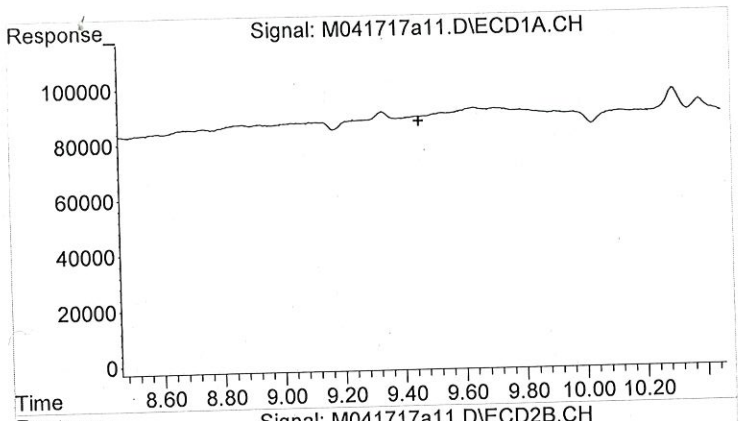
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 9.314 min
Response: 0
Conc: N.D.



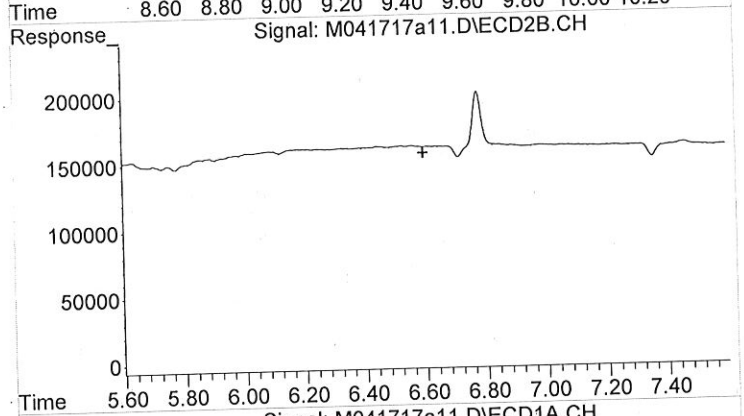
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 6.421 min
Response: 0
Conc: N.D.



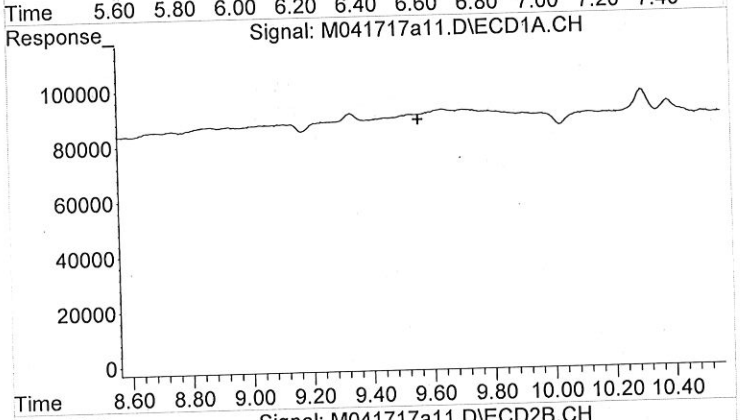
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 9.457 min
Response: 0
Conc: N.D.



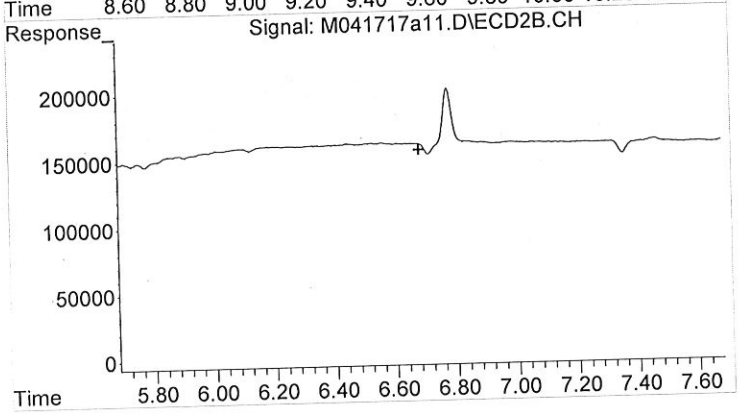
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 6.596 min
Response: 0
Conc: N.D.



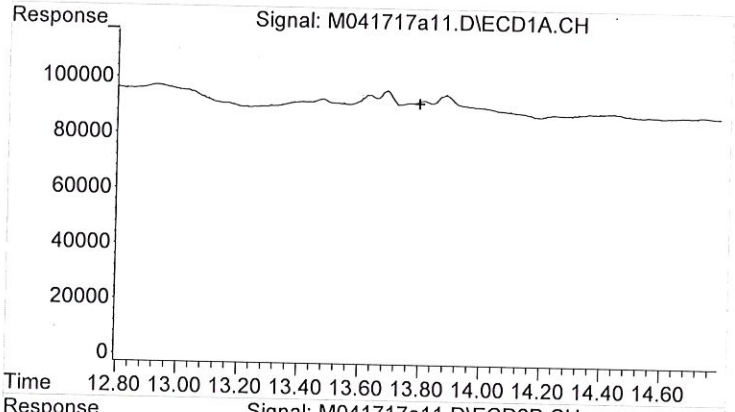
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 9.560 min
Response: 0
Conc: N.D.



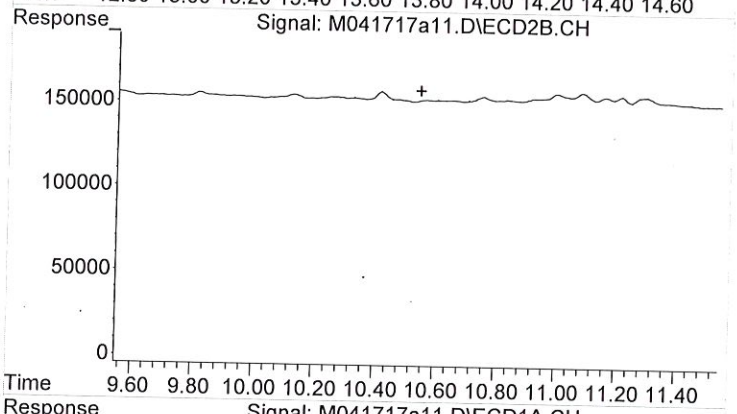
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 6.680 min
Response: 0
Conc: N.D.



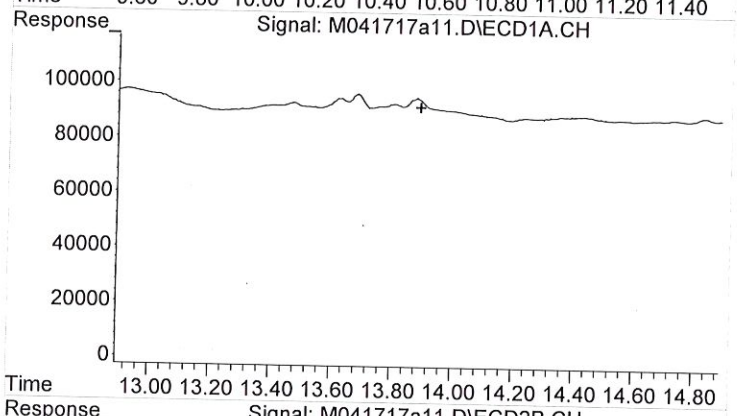
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 13.794 min
Response: 0
Conc: N.D.



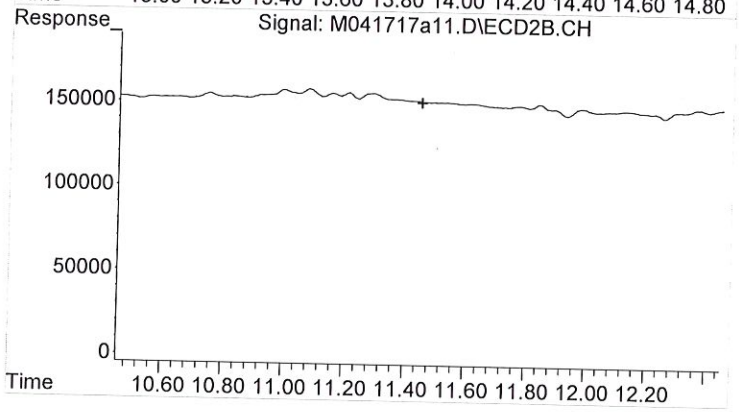
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 10.548 min
Response: 0
Conc: N.D.



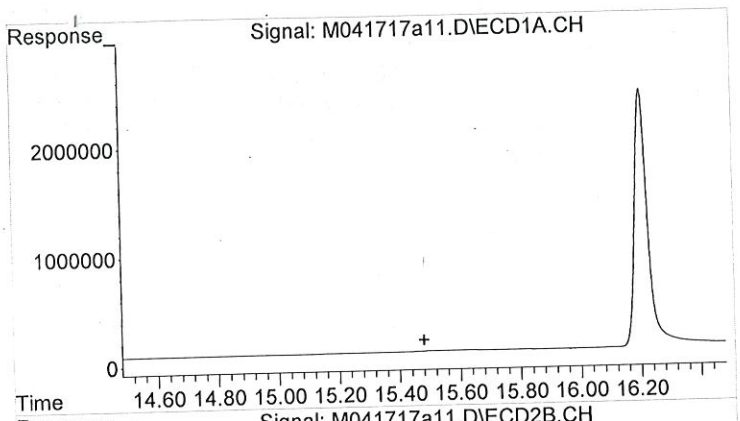
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 13.893 min
Response: 0
Conc: N.D.



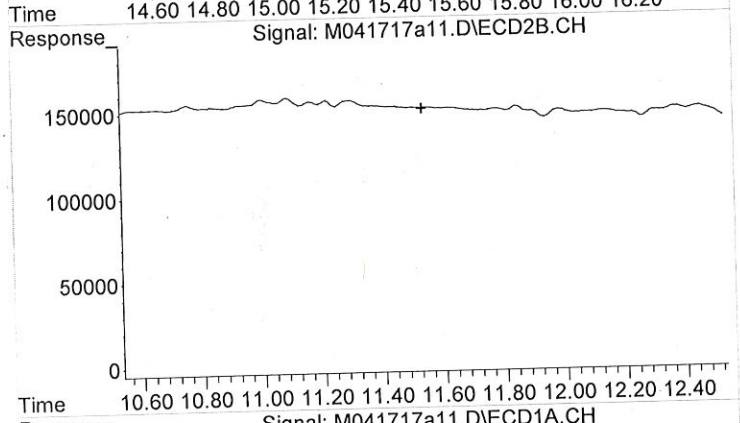
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 11.454 min
Response: 0
Conc: N.D.



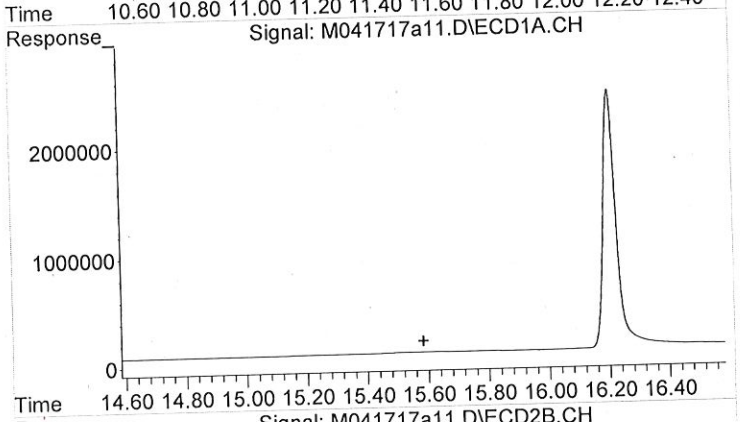
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 15.480 min
Response: 0
Conc: N.D.



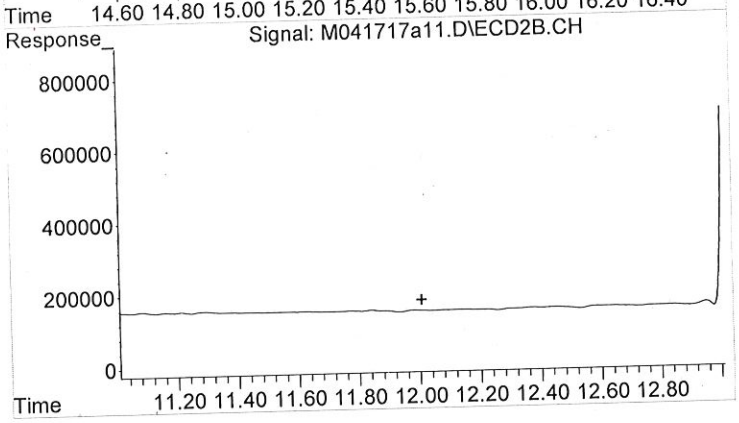
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 11.531 min
Response: 0
Conc: N.D.



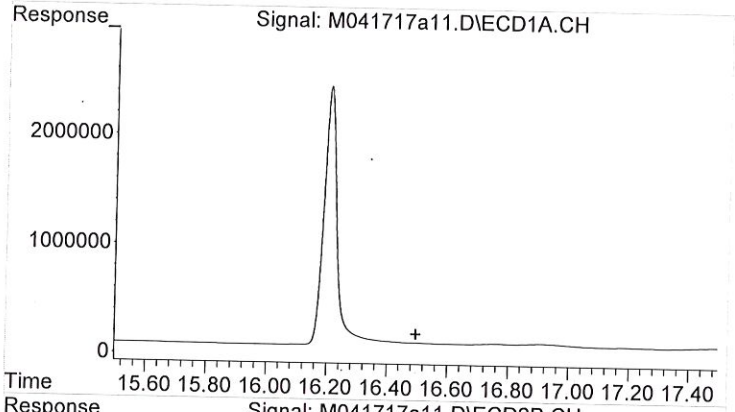
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 15.584 min
Response: 0
Conc: N.D.



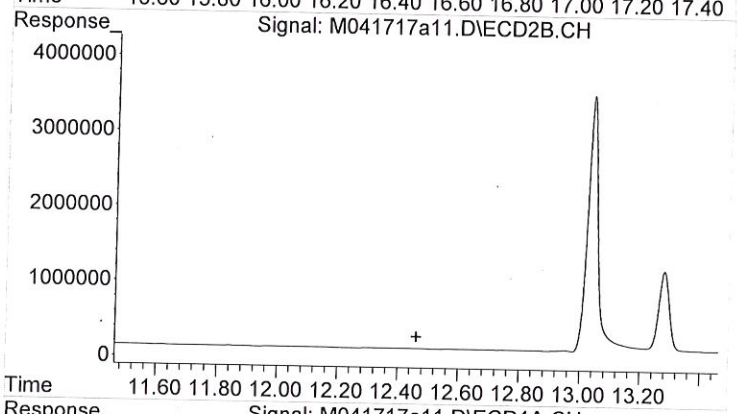
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 12.008 min
Response: 0
Conc: N.D.



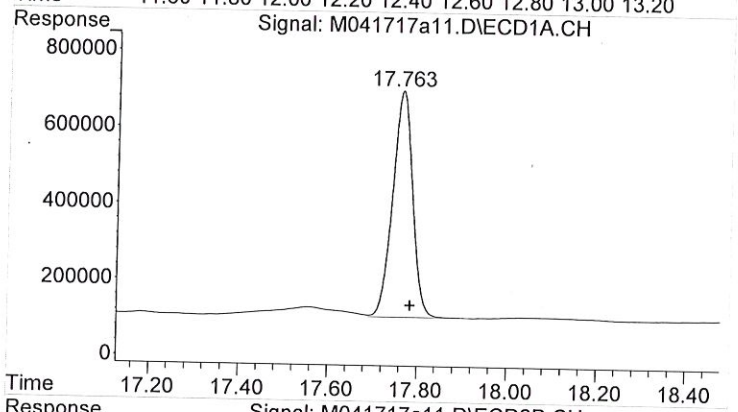
#11 1260-5

R.T.: 0.000 min
Exp R.T. : 16.497 min
Response: 0
Conc: N.D.



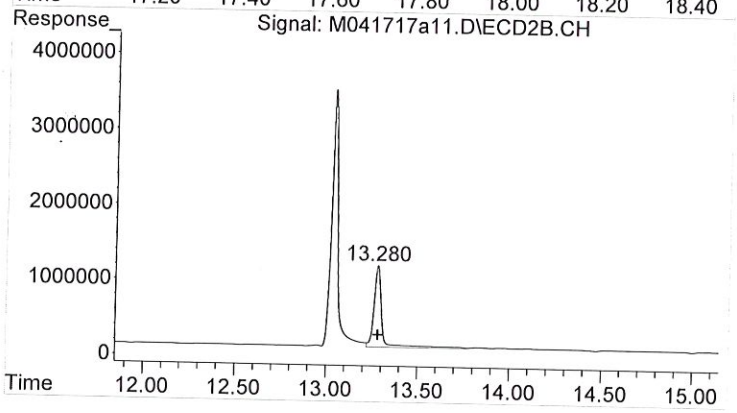
#11 1260-5

R.T.: 0.000 min
Exp R.T. : 12.463 min
Response: 0
Conc: N.D.



#12 dcb

R.T.: 17.763 min
Delta R.T.: -0.022 min
Response: 593546
Conc: 39.59 pg/uL



#12 dcb

R.T.: 13.280 min
Delta R.T.: -0.004 min
Response: 1079972
Conc: 45.14 pg/uL

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\
Data File : M041717a11.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Apr 2017 19:52 pm
Operator : DWOOD
Sample : 17154105
Misc : Sky Valley PCB Wipe 10mL fv
ALS Vial : 0 (Sig #1); 11 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 14:03:59 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32

Signal #2 Phase: CLPest2
Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	6.979	4.799	1062764	1873408	39.848	44.999
12) S2 dcb	17.763	13.280	593546	1079972	39.588	45.138
Target Compounds						
2) L1 1016 -1	0.000	5.352	0	~~27937~~	N.D.	29.494 #
3) L1 1016-2	0.000	0.000	0	0	N.D.	N.D.
4) L1 1016-3	9.334	6.442	3423	~~10531~~	N.D.	4.465 #
5) L1 1016-4	0.000	0.000	0	0	N.D.	N.D.
6) L1 1016-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1016 -1			0	38469	N.D.	33.958
Average 1016 -1					0.000	16.979
7) L2 1260-1	0.000	0.000	0	0	N.D.	N.D.
8) L2 1260-2	0.000	0.000	0	0	N.D.	N.D.
9) L2 1260-3	15.543f	0.000	~~5589~~	0	~~4.428~~	N.D. #
10) L2 1260-4	15.543	11.983	~~5589~~	~~4516~~	N.D.	13.139 #
11) L2 1260-5	0.000	12.449	0	~~5651~~	N.D.	7.310 #
Sum 1260-1			5589	10166	4.328	20.449
Average 1260-1					4.328	10.224

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

4/24/17

PCB Sample Results Summary

PCB

Sample.....: 17154106
Data File....: M041717a12.D
Project.....: OCE-009D
Matrix.....: 42 - Wipe
Analyzed.....: 04/17/2017 20:16
Type.....: 0

Date Prepped...: 4/17/2017
ICAL Date.....: 03/21/2017
Prep Method....: 3580A
Analysis Method: 8082A
Quant Column...: 1

Prepped By.: DWOOD
Analyst....: DWOOD
CID.....: N1
Acq. Method: M012116PCB2B.M
ASEQ Number: 12

Instrument.....: Minerva
Amount Extracted.: 40 wipe
Percent Solids...: NA
Final Volume.....: 10 mL
Dilution.....: 1x D0

Additional Info..: Sky Valley PCB Wipe 10mL fv
DP Method Path...: J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Datafile Path....: J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\M041717a12.D

m = manual integration
d = deleted
U = Undetected
J = Below calibrated range
E = Exceeds calibrated range

Pk	Low Cal (pg)[1]	High Cal (pg)[1]	Compound Name	RT	Exp RT	Response		Spike (pg)[1]	Amount (pg)[1]	Result Units	Q
1	2.5	250	tmx (1)	6.98	6.99	1101120		50	41	83 %Rec	
12	2.5	250	dcb	17.76	17.79	628735		50	42	84 %Rec	
14	2.5	250	tmx (1) #2	4.80	4.80	1990060		50	48	96 %Rec	
25	2.5	250	dcb #2	13.28	13.28	1156740		50	48	97 %Rec	
2	25	1000	1016 -1	-	-	-	d	-	-	0.25 ug (RL)	U
3	25	1000	1016-2	-	-	-		-	-	0.25 ug (RL)	U
4	25	1000	1016-3	-	-	-	d	-	-	0.25 ug (RL)	U
5	25	1000	1016-4	-	-	-		-	-	0.25 ug (RL)	U
6	25	1000	1016-5	-	-	-		-	-	0.25 ug (RL)	U
7	25	1000	1260-1	-	-	-	d	-	-	0.25 ug (RL)	U
8	25	1000	1260-2	-	-	-	d	-	-	0.25 ug (RL)	U
9	25	1000	1260-3	-	-	-	d	-	-	0.25 ug (RL)	U
10	25	1000	1260-4	-	-	-	d	-	-	0.25 ug (RL)	U
11	25	1000	1260-5	-	-	-	d	-	-	0.25 ug (RL)	U
15	25	1000	1016 -1 #2	-	-	-		-	-	0.25 ug (RL)	U
16	25	1000	1016-2 #2	-	-	-	d	-	-	0.25 ug (RL)	U
17	25	1000	1016-3 #2	-	-	-		-	-	0.25 ug (RL)	U
18	25	1000	1016-4 #2	-	-	-		-	-	0.25 ug (RL)	U
19	25	1000	1016-5 #2	-	-	-	d	-	-	0.25 ug (RL)	U
20	25	1000	1260-1 #2	-	-	-	d	-	-	0.25 ug (RL)	U
21	25	1000	1260-2 #2	-	-	-	d	-	-	0.25 ug (RL)	U
22	25	1000	1260-3 #2	-	-	-	d	-	-	0.25 ug (RL)	U
23	25	1000	1260-4 #2	-	-	-	d	-	-	0.25 ug (RL)	U
24	25	1000	1260-5 #2	-	-	-	d	-	-	0.25 ug (RL)	U

CAS#	Name	Avg	Unit	n	%RSD	Column RPD[2]
12674112	1016 Column 1	0.25	ug (RL)	0	NA	
12674112	1016 Column 2	0.25	ug (RL)	0	NA	
11096825	1260 Column 1	0.25	ug (RL)	0	NA	
11096825	1260 Column 2	0.25	ug (RL)	0	NA	

Results will be reported from Column 1

[1]'Amount' units are pg or pg/uL on column. [2]RPD (Relative Percent Difference) is the percent difference between the result of column 1 and the result of column 2. The values are calculated using the non-rounded average result values. (|A-B|/((A+B)*0.5))*100 is the formula used for the calculation. The value should nominally be <= 40%.

Sample Concentration = (Amt)*(Final Volume[mL])*(Dilution)/Amount Extracted = ug/L, ug/kg, ug/g, or ug.

Generated Tue Apr 25 10:01:43 2017

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\
Data File : M041717a12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Apr 2017 8:16 pm
Operator : DWOOD
Sample : 17154106
Misc : Sky Valley PCB Wipe 10mL fv
ALS Vial : 0 (Sig #1); 12 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 14:57:25 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32
Signal #2 Phase: CLPest2
Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	6.979	4.799	1101124	1990062	41.305	47.856
12) S2 dcb	17.763	13.279	628735	1156740	42.010	48.361
Target Compounds						
2) L1 1016 -1	0.000	0.000	0	0	N.D. d	N.D. d
3) L1 1016-2	0.000	0.000	0	0	N.D.	N.D.
4) L1 1016-3	0.000	0.000	0	0	N.D. d	N.D. d
5) L1 1016-4	0.000	0.000	0	0	N.D.	N.D.
6) L1 1016-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1016 -1			0	0	N.D.	N.D.
Average 1016 -1					0.000	0.000
7) L2 1260-1	0.000	0.000	0	0	N.D. d	N.D. d
8) L2 1260-2	0.000	0.000	0	0	N.D. d	N.D. d
9) L2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
10) L2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
11) L2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

4/24/17

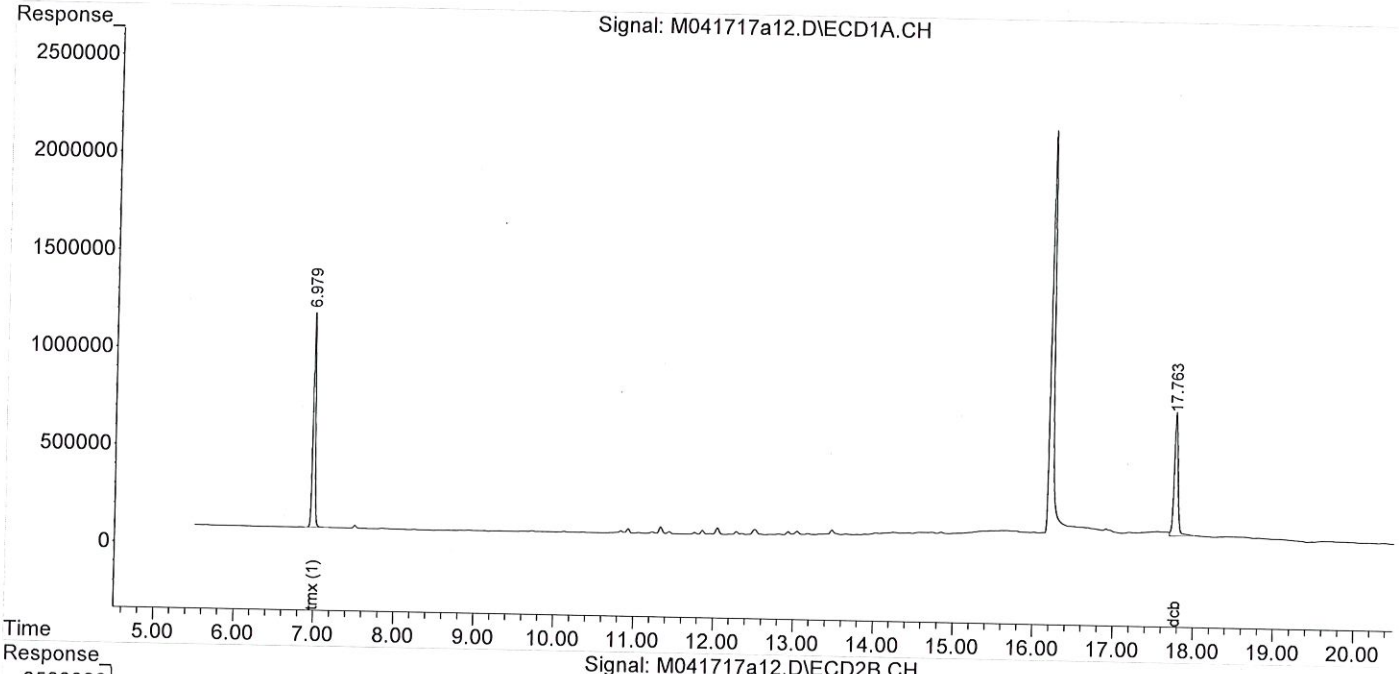
Quantitation Report (QT Reviewed)

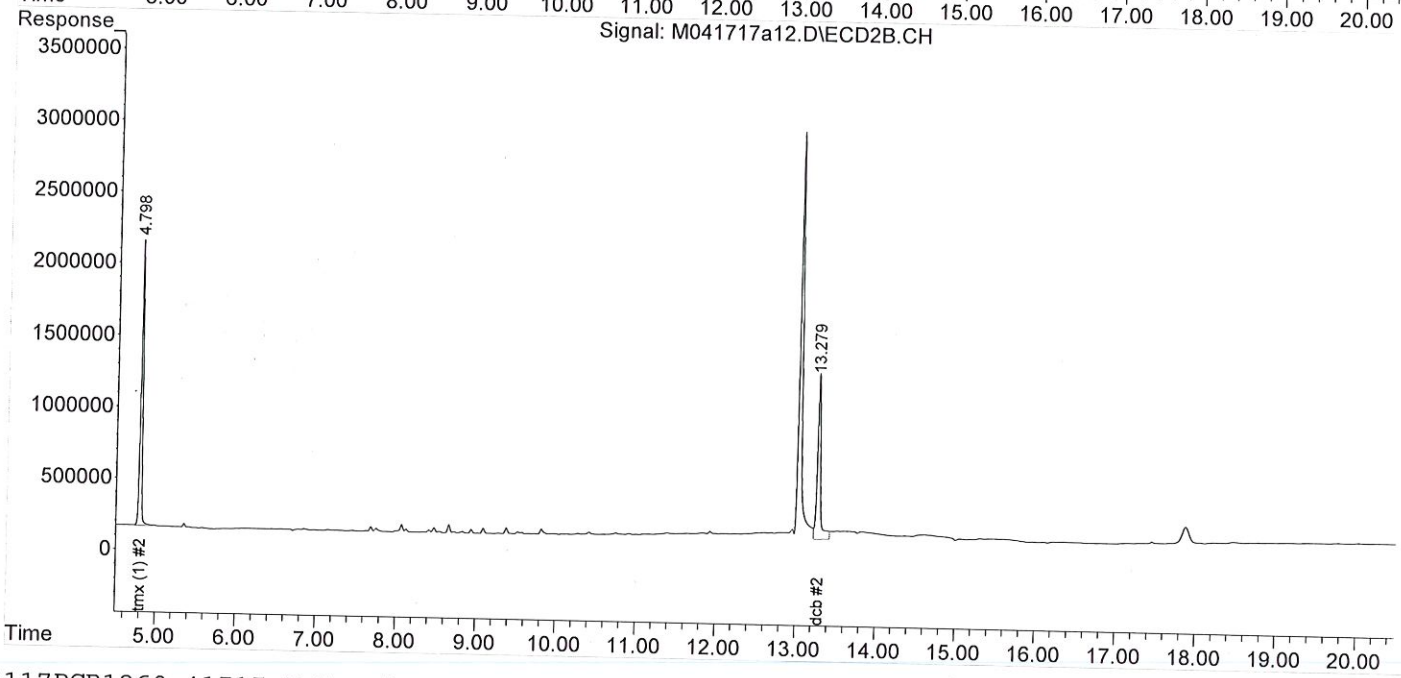
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\
Data File : M041717a12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Apr 2017 8:16 pm
Operator : DWOOD
Sample : 17154106
Misc : Sky Valley PCB Wipe 10mL fv
ALS Vial : 0 (Sig #1); 12 (Sig #2) Sample Multiplier: 1

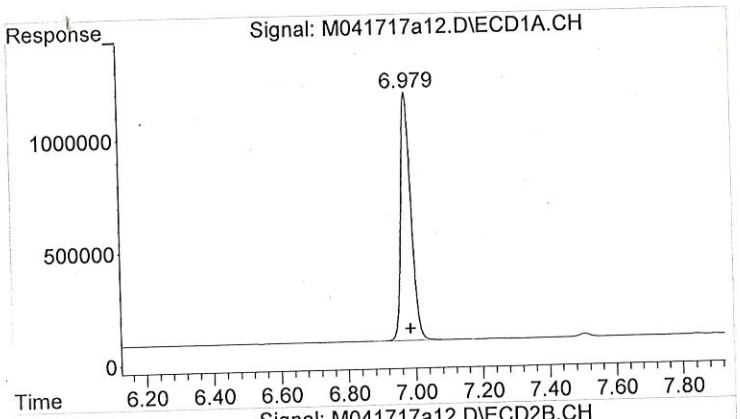
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 14:57:25 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32

Signal #2 Phase: CLPest2
Signal #2 Info : .32

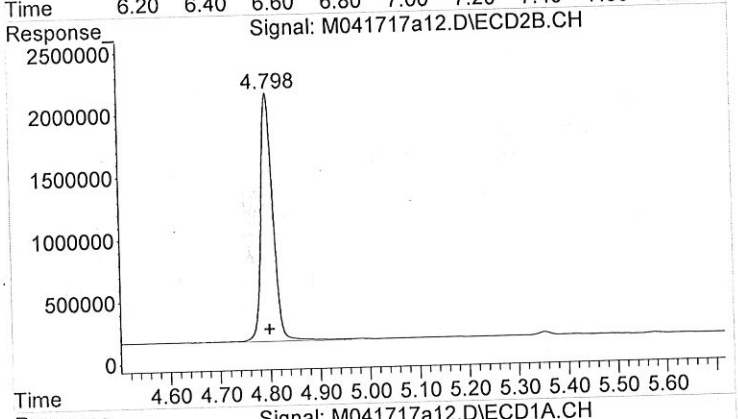






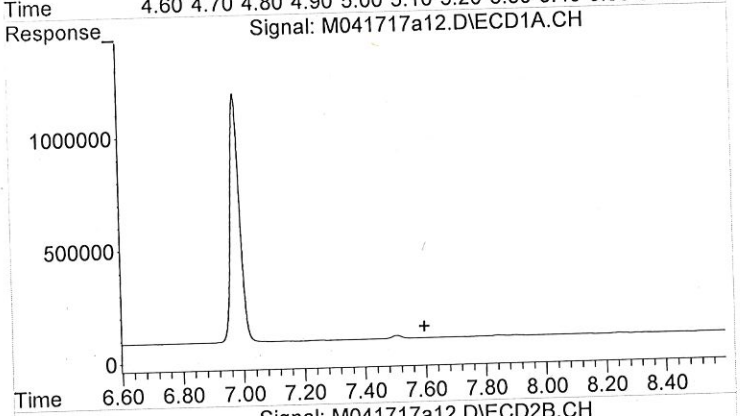
#1 tmx (1)

R.T.: 6.979 min
Delta R.T.: -0.007 min
Response: 1101124
Conc: 41.30 pg/uL



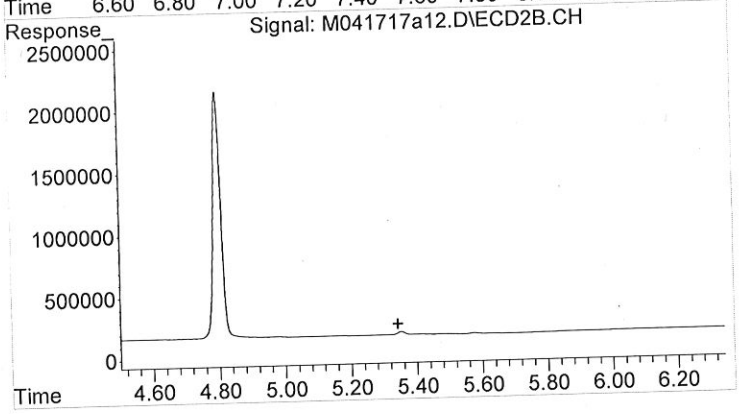
#1 tmx (1)

R.T.: 4.799 min
Delta R.T.: 0.000 min
Response: 1990062
Conc: 47.86 pg/uL



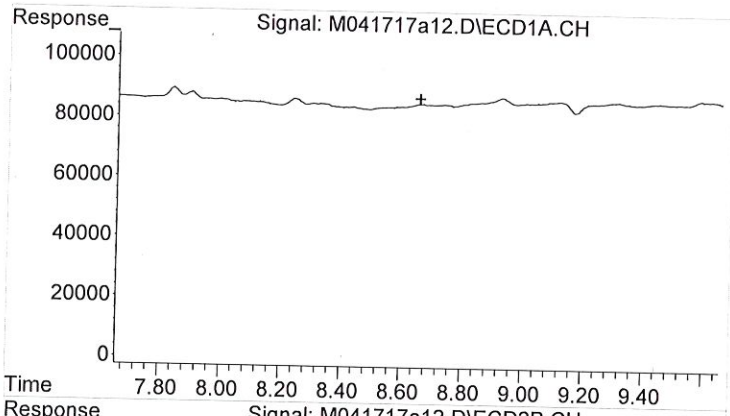
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 7.596 min
Response: 0
Conc: N.D.



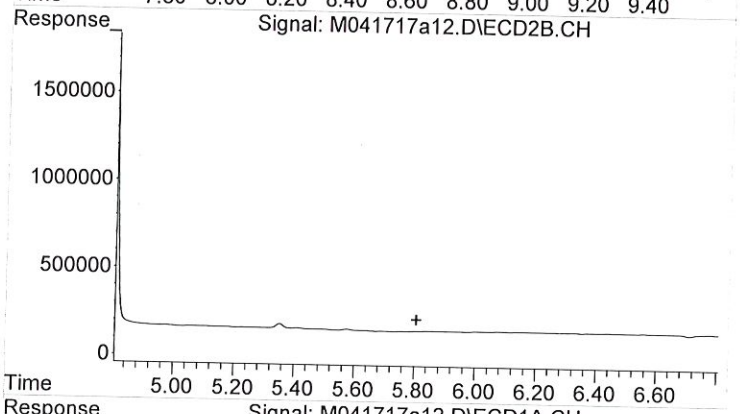
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 5.343 min
Response: 0
Conc: N.D.



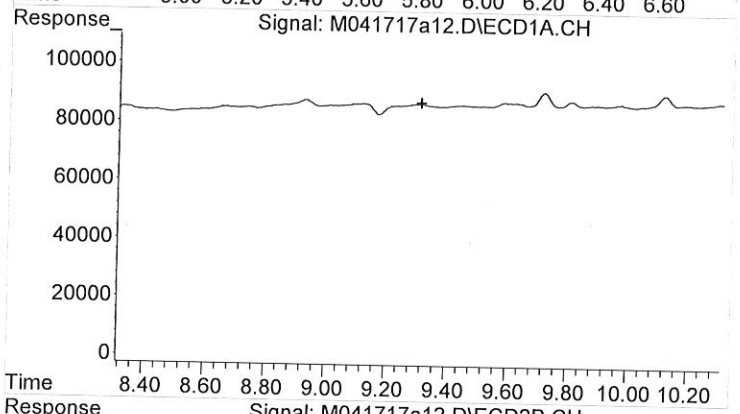
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 8.659 min
Response: 0
Conc: N.D.



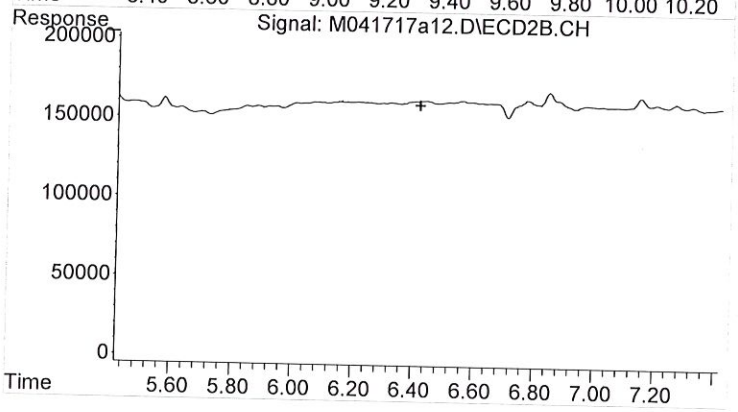
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 5.807 min
Response: 0
Conc: N.D.



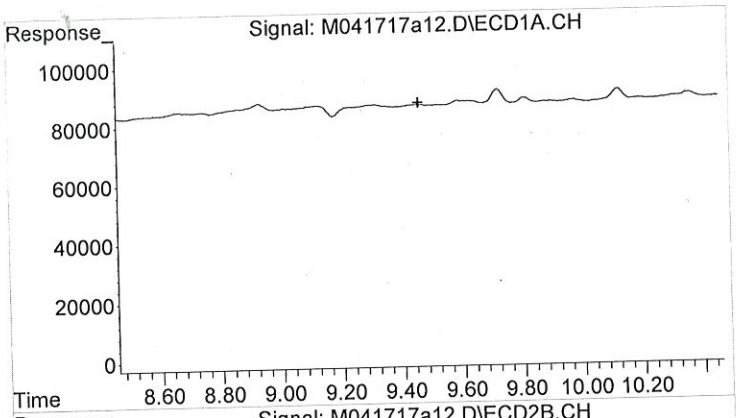
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 9.314 min
Response: 0
Conc: N.D.



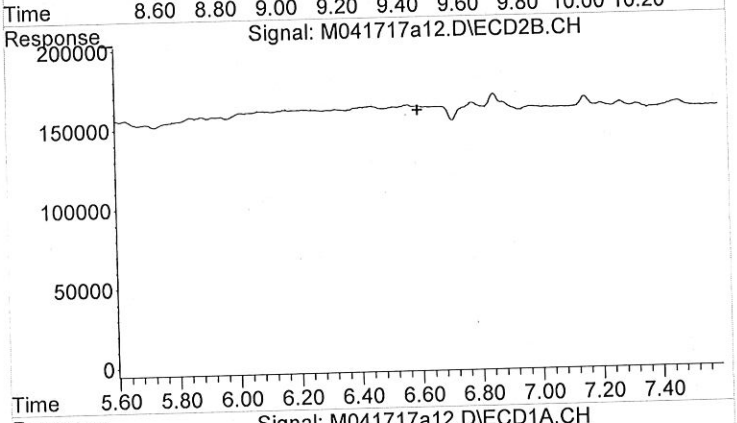
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 6.421 min
Response: 0
Conc: N.D.



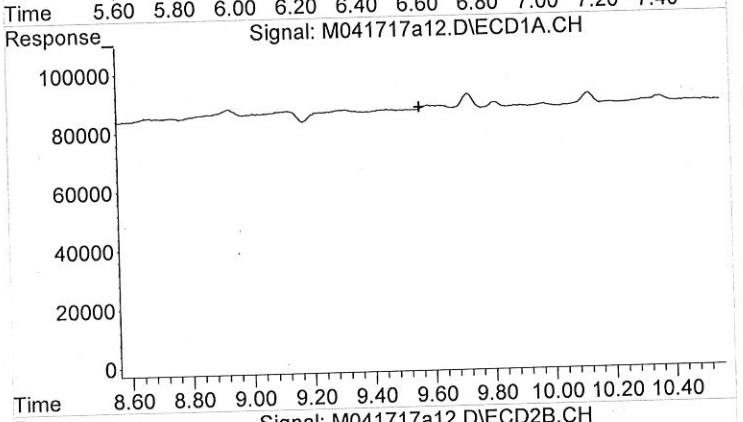
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 9.457 min
Response: 0
Conc: N.D.



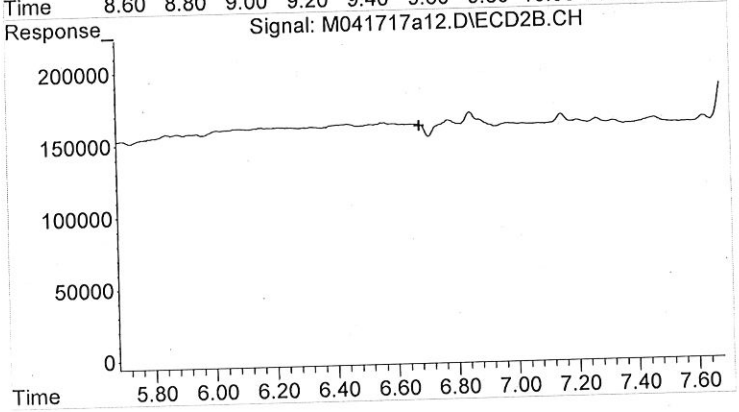
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 6.596 min
Response: 0
Conc: N.D.



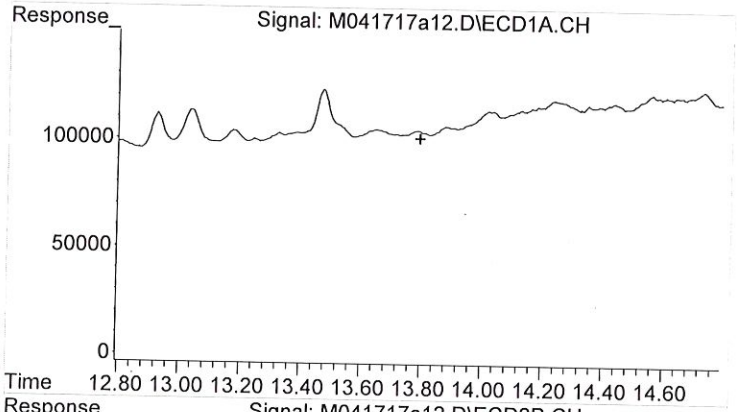
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 9.560 min
Response: 0
Conc: N.D.



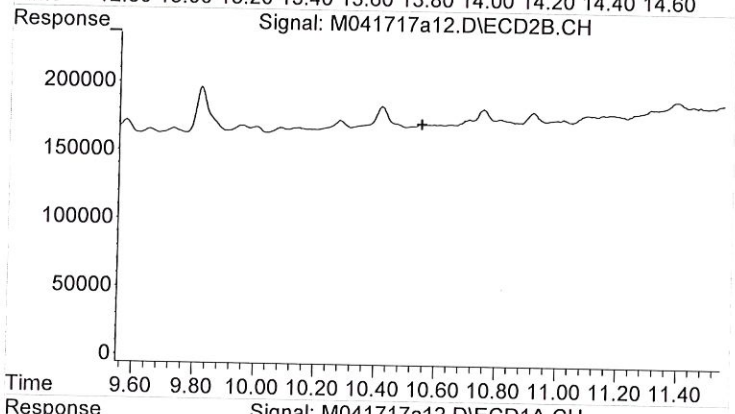
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 6.680 min
Response: 0
Conc: N.D.



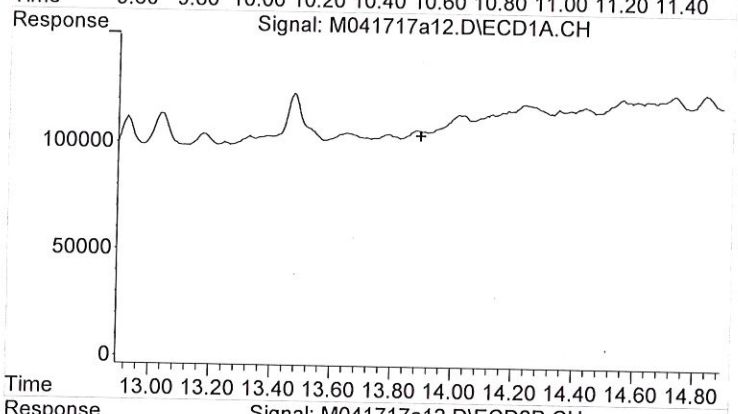
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 13.794 min
Response: 0
Conc: N.D.



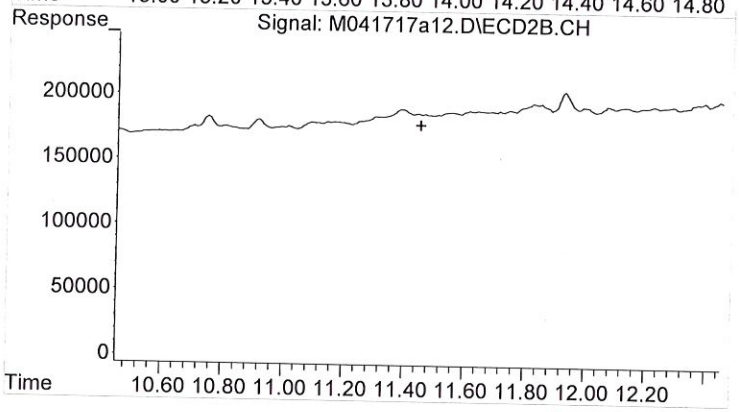
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 10.548 min
Response: 0
Conc: N.D.



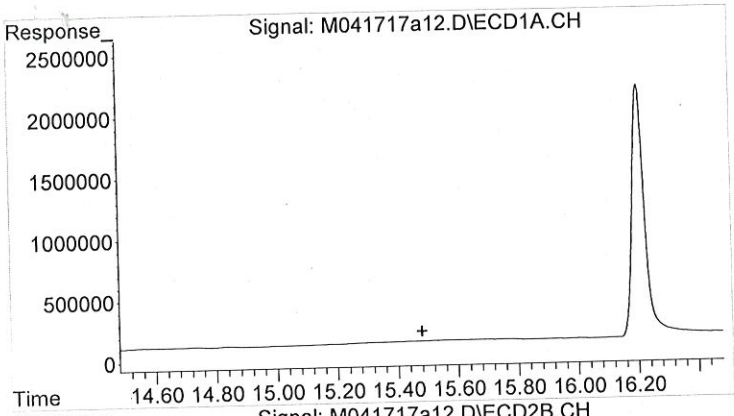
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 13.893 min
Response: 0
Conc: N.D.



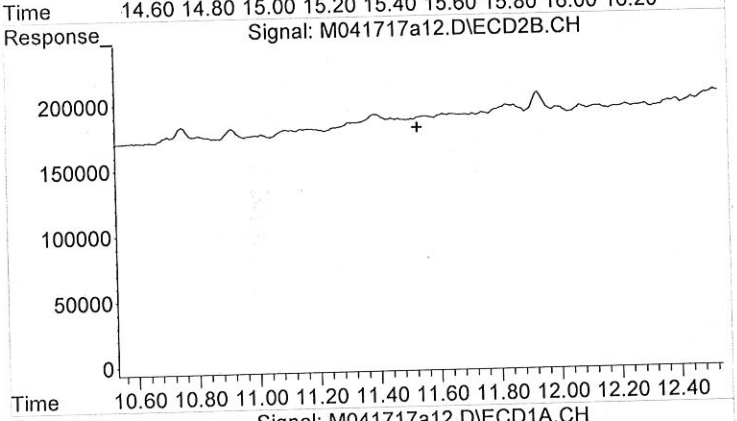
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 11.454 min
Response: 0
Conc: N.D.



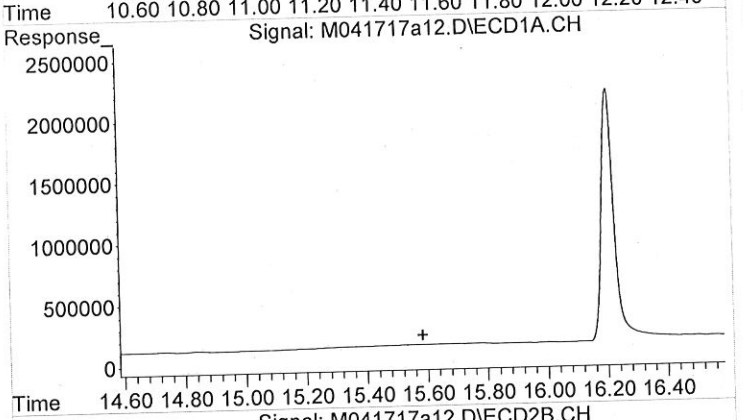
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 15.480 min
Response: 0
Conc: N.D.



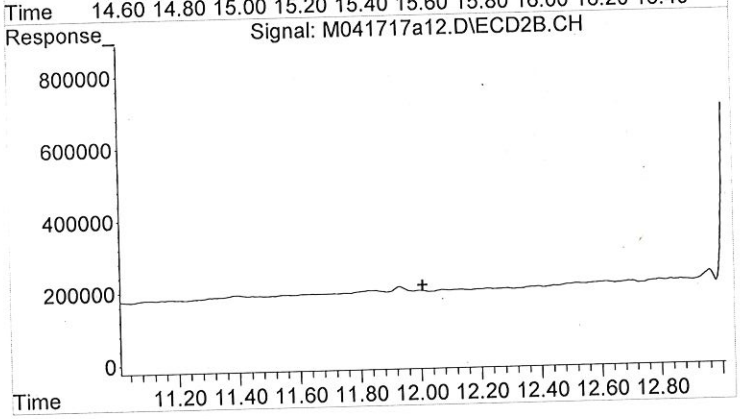
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 11.531 min
Response: 0
Conc: N.D.



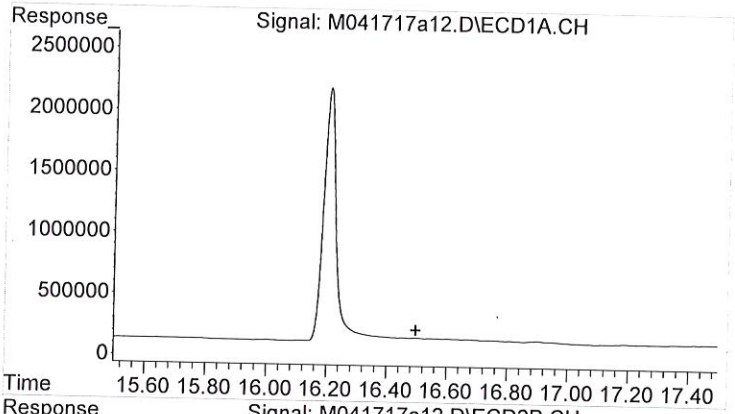
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 15.584 min
Response: 0
Conc: N.D.



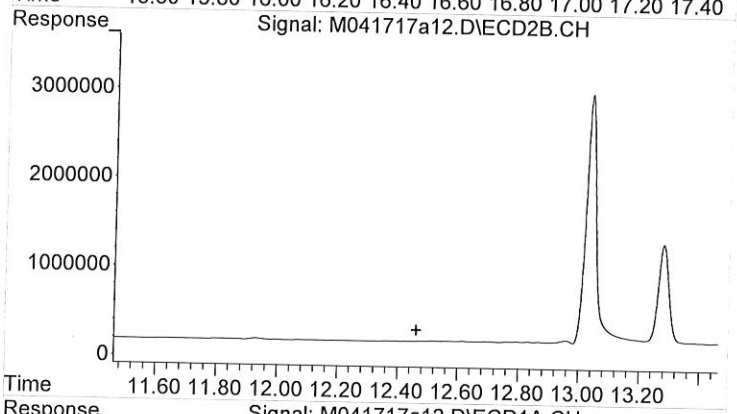
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 12.008 min
Response: 0
Conc: N.D.



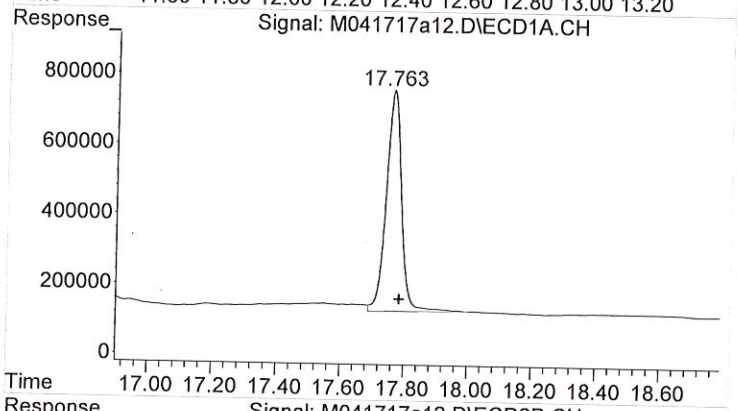
#11 1260-5

R.T.: 0.000 min
Exp R.T. : 16.497 min
Response: 0
Conc: N.D.



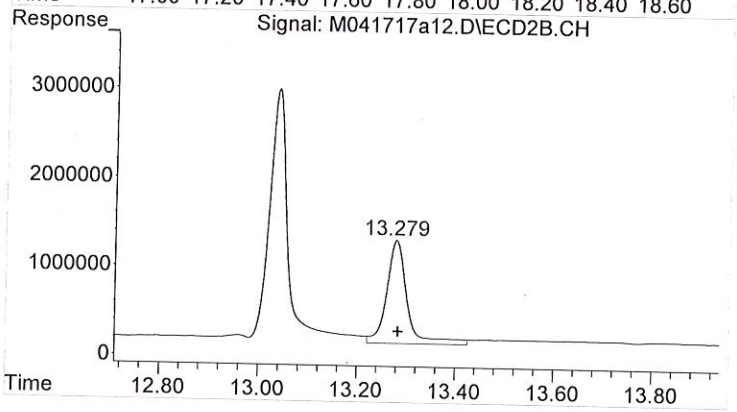
#11 1260-5

R.T.: 0.000 min
Exp R.T. : 12.463 min
Response: 0
Conc: N.D.



#12 dcb

R.T.: 17.763 min
Delta R.T.: -0.022 min
Response: 628735
Conc: 42.01 pg/uL



#12 dcb

R.T.: 13.279 min
Delta R.T.: -0.005 min
Response: 1156740
Conc: 48.36 pg/uL

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\
Data File : M041717a12.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Apr 2017 20:16 pm
Operator : DWOOD
Sample : 17154106
Misc : Sky Valley PCB Wipe 10mL fv
ALS Vial : 0 (Sig #1); 12 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 14:04:07 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32

Signal #2 Phase: CLPest2
Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	6.979	4.799	1101124	1990062	41.305	47.856
12) S2 dcb	17.763	13.279	628735	1156740	42.010	48.361
Target Compounds						
2) L1 1016 -1	0.000	5.352	0	~~28777~~	N.D.	30.542 #
3) L1 1016-2	0.000	0.000	0	0	N.D.	N.D.
4) L1 1016-3	0.000	6.442	0	~~9988~~	N.D.	4.185 #
5) L1 1016-4	0.000	0.000	0	0	N.D.	N.D.
6) L1 1016-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1016 -1			0	38766	N.D.	34.727
Average 1016 -1					0.000	17.363
7) L2 1260-1	0.000	10.588	0	~~9519~~	N.D.	25.069 #
8) L2 1260-2	0.000	11.443	0	~~22931~~	N.D.	25.438 #
9) L2 1260-3	15.461	11.556	24025	~~23898~~	35.883	34.380
10) L2 1260-4	15.603	11.994	25102	~~27921~~	~~33.088~~	78.091 #
11) L2 1260-5	16.503	12.444	46605	~~32760~~	~~70.911~~	40.397 #
Sum 1260-1			95733	117028	139.881	203.374
Average 1260-1					46.627	40.675

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

4/24/17

PCB

PCB Sample Results Summary

Sample.....: 17154107
Data File....: M041717a13.D
Project.....: OCE-009D
Matrix.....: 42 - Wipe
Analyzed.....: 04/17/2017 20:41
Type.....: 0

Date Prepped...: 4/17/2017
ICAL Date.....: 03/21/2017
Prep Method....: 3580A
Analysis Method: 8082A
Quant Column...: 1

Prepped By.: DWOOD
Analyst....: DWOOD
CID.....: N1
Acq. Method: M012116PCB2B.M
ASEQ Number: 13

Instrument.....: Minerva
Amount Extracted.: 40 wipe
Percent Solids...: NA
Final Volume.....: 10 mL
Dilution.....: 1x D0

Additional Info..: Sky Valley PCB Wipe 10mL fv
DP Method Path...: J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Datafile Path....: J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\M041717a13.D

m = manual integration
d = deleted
U = Undetected
J = Below calibrated range
E = Exceeds calibrated range

Pk	Low Cal (pg)[1]	High Cal (pg)[1]	Compound Name	RT	Exp RT	Response		Spike (pg)[1]	Amount (pg)[1]	Result Units	Q
1	2.5	250	tmx (1)	6.98	6.99	1095570		50	41	82 %Rec	
12	2.5	250	dcb	17.76	17.79	628831		50	42	84 %Rec	
14	2.5	250	tmx (1) #2	4.80	4.80	1925390		50	46	93 %Rec	
25	2.5	250	dcb #2	13.28	13.28	1118860		50	47	94 %Rec	
2	25	1000	1016 -1	-	-	-	d	-	-	0.25 ug (RL)	U
3	25	1000	1016-2	-	-	-		-	-	0.25 ug (RL)	U
4	25	1000	1016-3	-	-	-		-	-	0.25 ug (RL)	U
5	25	1000	1016-4	-	-	-		-	-	0.25 ug (RL)	U
6	25	1000	1016-5	-	-	-		-	-	0.25 ug (RL)	U
7	25	1000	1260-1	-	-	-		-	-	0.25 ug (RL)	U
8	25	1000	1260-2	-	-	-		-	-	0.25 ug (RL)	U
9	25	1000	1260-3	-	-	-		-	-	0.25 ug (RL)	U
10	25	1000	1260-4	-	-	-		-	-	0.25 ug (RL)	U
11	25	1000	1260-5	-	-	-	d	-	-	0.25 ug (RL)	U
15	25	1000	1016 -1 #2	-	-	-	d	-	-	0.25 ug (RL)	U
16	25	1000	1016-2 #2	-	-	-		-	-	0.25 ug (RL)	U
17	25	1000	1016-3 #2	-	-	-		-	-	0.25 ug (RL)	U
18	25	1000	1016-4 #2	-	-	-		-	-	0.25 ug (RL)	U
19	25	1000	1016-5 #2	-	-	-		-	-	0.25 ug (RL)	U
20	25	1000	1260-1 #2	-	-	-		-	-	0.25 ug (RL)	U
21	25	1000	1260-2 #2	-	-	-		-	-	0.25 ug (RL)	U
22	25	1000	1260-3 #2	-	-	-		-	-	0.25 ug (RL)	U
23	25	1000	1260-4 #2	-	-	-		-	-	0.25 ug (RL)	U
24	25	1000	1260-5 #2	-	-	-	d	-	-	0.25 ug (RL)	U

CAS#	Name	Avg	Unit	n	%RSD	Column RPD[2]
12674112	1016 Column 1	0.25	ug (RL)	0	NA	
12674112	1016 Column 2	0.25	ug (RL)	0	NA	
11096825	1260 Column 1	0.25	ug (RL)	0	NA	
11096825	1260 Column 2	0.25	ug (RL)	0	NA	

Results will be reported from Column 1

[1]'Amount' units are pg or pg/uL on column. [2]RPD (Relative Percent Difference) is the percent difference between the result of column 1 and the result of column 2. The values are calculated using the non-rounded average result values. (|A-B|/((A+B)*0.5))*100 is the formula used for the calculation. The value should nominally be <= 40%.

Sample Concentration = (Amt)*(Final Volume[mL])*(Dilution)/Amount Extracted = ug/L, ug/kg, ug/g, or ug.

Generated Tue Apr 25 10:01:47 2017

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\
Data File : M041717a13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Apr 2017 20:41 pm
Operator : DWOOD
Sample : 17154107
Misc : Sky Valley PCB Wipe 10mL fv
ALS Vial : 0 (Sig #1); 13 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Apr 25 08:51:20 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32
Signal #2 Phase: CLPest2
Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	6.979	4.798	1095566	1925387	41.094	46.272
12) S2 dcb	17.762	13.280	628831	1118861	42.017	46.771
Target Compounds						
2) L1 1016 -1	0.000	0.000	0	0	N.D. d	N.D. d
3) L1 1016-2	0.000	0.000	0	0	N.D.	N.D.
4) L1 1016-3	0.000	0.000	0	0	N.D.	N.D.
5) L1 1016-4	0.000	0.000	0	0	N.D.	N.D.
6) L1 1016-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1016 -1					0.000	0.000
Average 1016 -1						
7) L2 1260-1	0.000	0.000	0	0	N.D.	N.D.
8) L2 1260-2	0.000	0.000	0	0	N.D.	N.D.
9) L2 1260-3	0.000	0.000	0	0	N.D.	N.D.
10) L2 1260-4	0.000	0.000	0	0	N.D.	N.D.
11) L2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1					N.D.	N.D.
Average 1260-1					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

LW
4/25/17

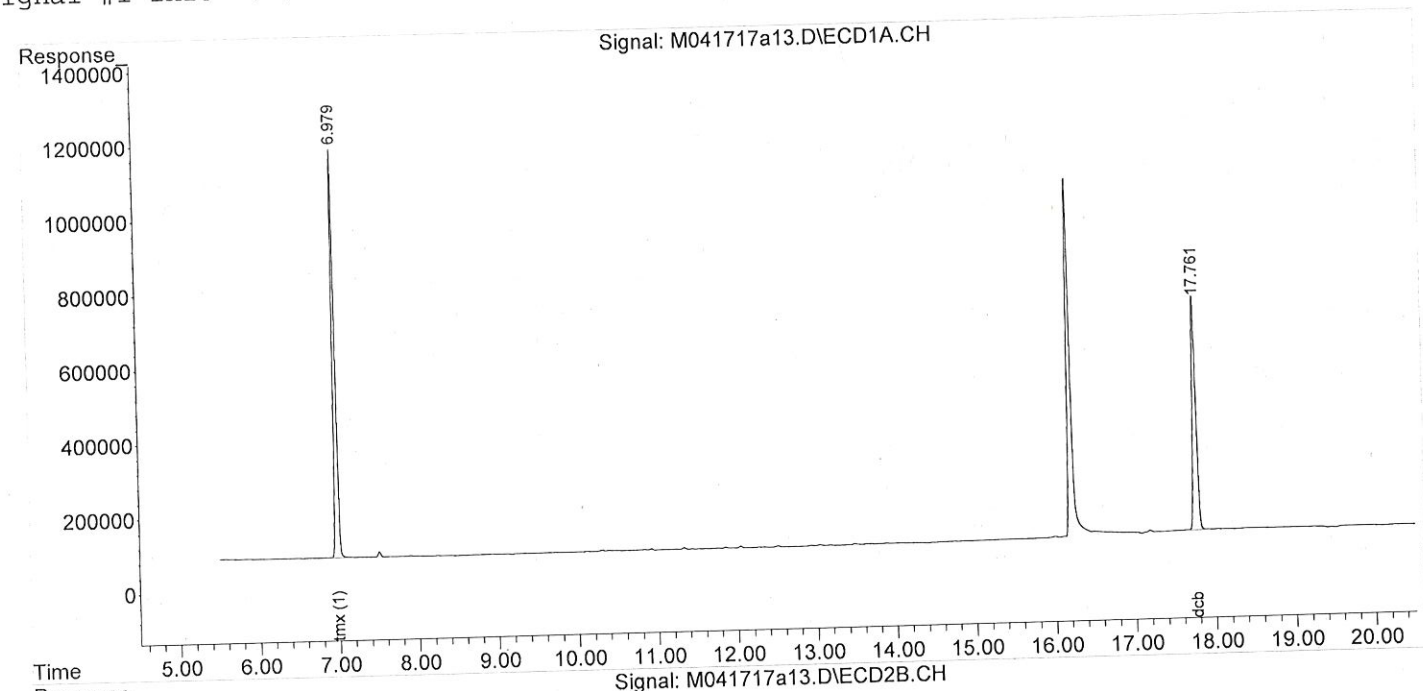
Quantitation Report (QT Reviewed)

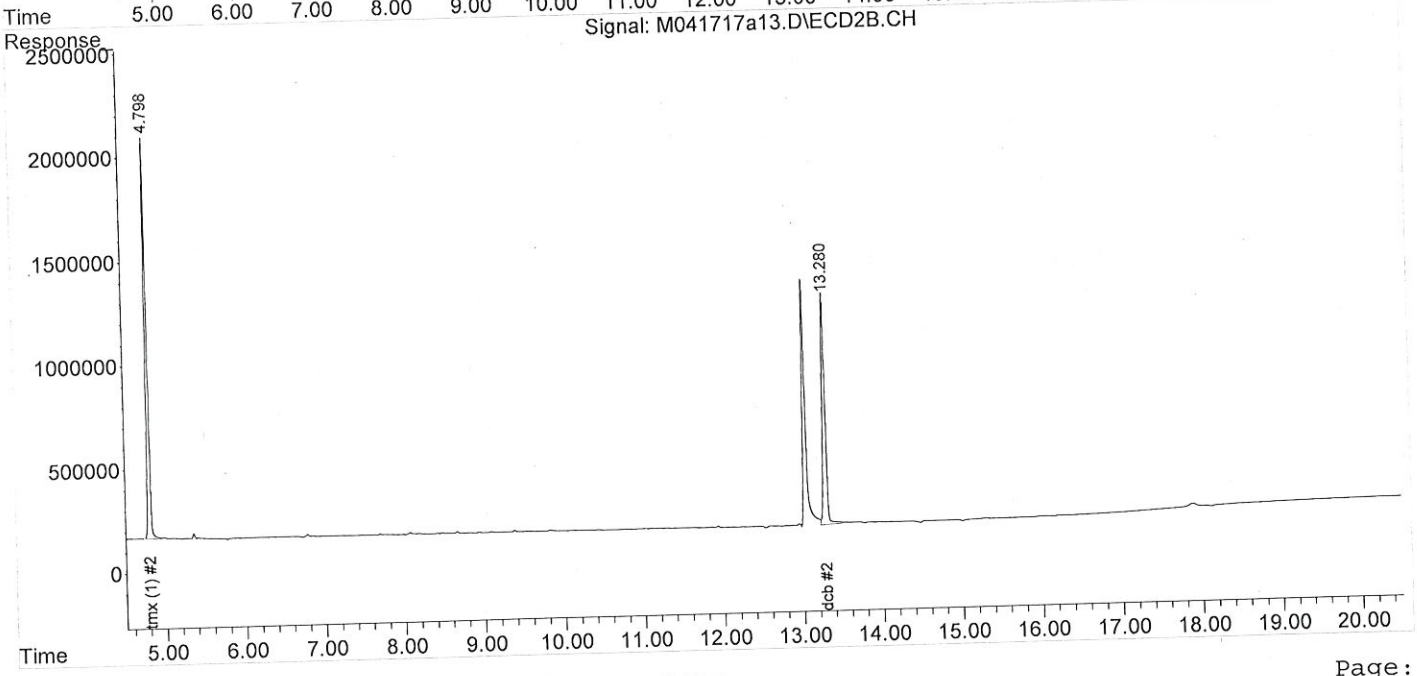
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\
Data File : M041717a13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Apr 2017 20:41 pm
Operator : DWOOD
Sample : 17154107
Misc : Sky Valley PCB Wipe 10mL fv
ALS Vial : 0 (Sig #1); 13 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Apr 25 08:51:20 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

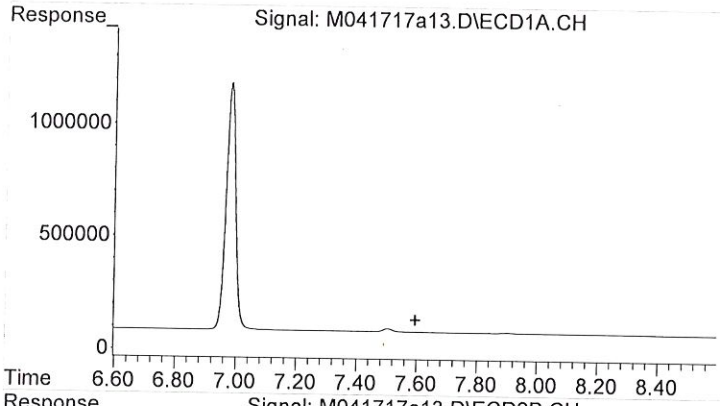
Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32

Signal #2 Phase: CLPest2
Signal #2 Info : .32



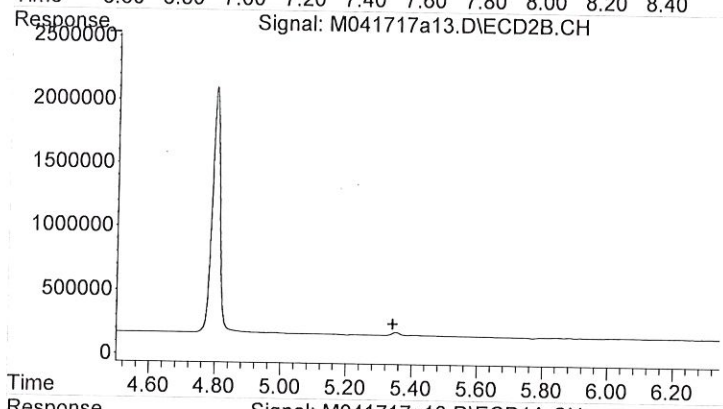


M033017PCB1254_41717.M Tue Apr 25 09:07:00 2017



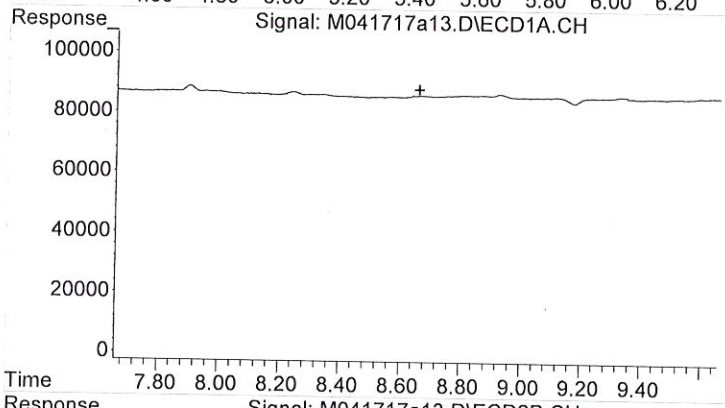
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 7.596 min
Response: 0
Conc: N.D.



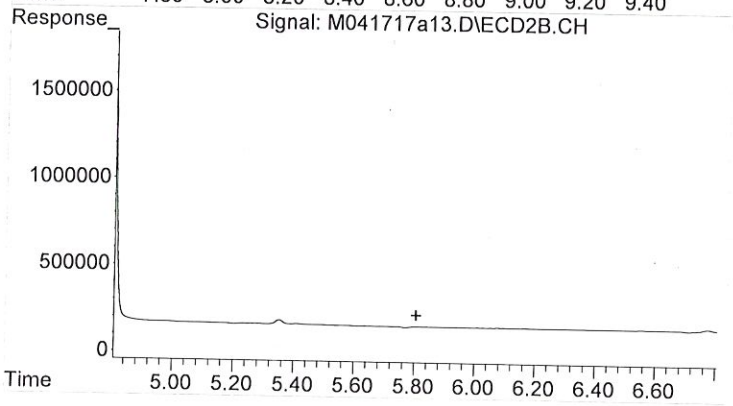
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 5.343 min
Response: 0
Conc: N.D.



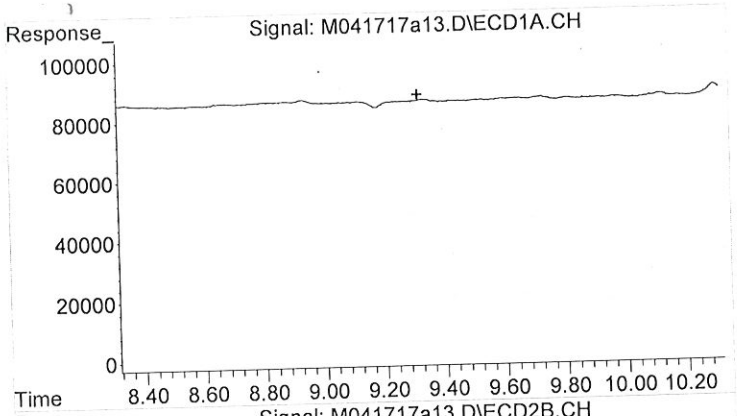
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 8.659 min
Response: 0
Conc: N.D.



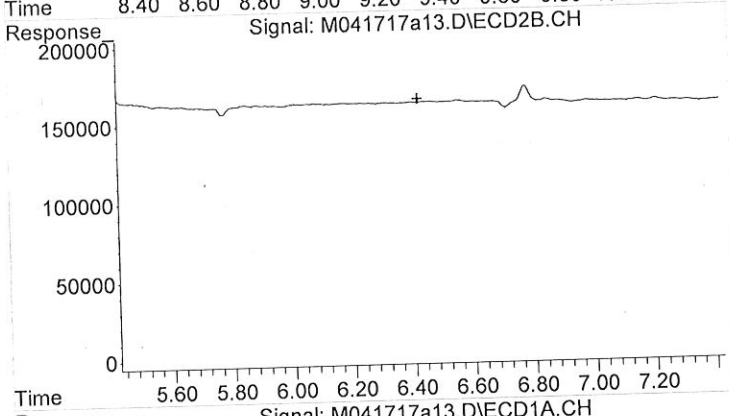
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 5.807 min
Response: 0
Conc: N.D.



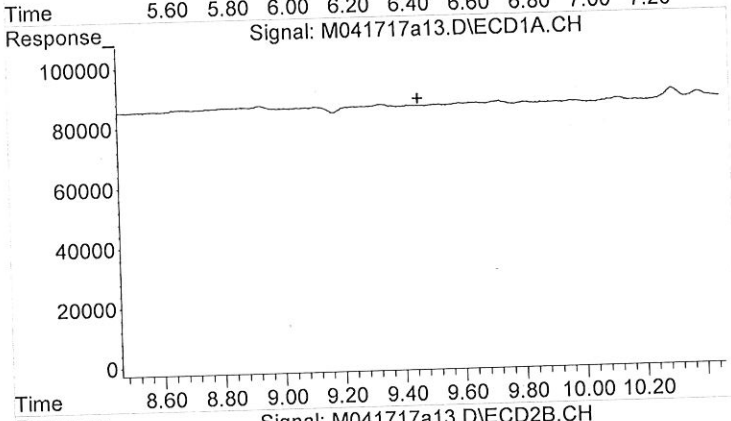
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 9.314 min
Response: 0
Conc: N.D.



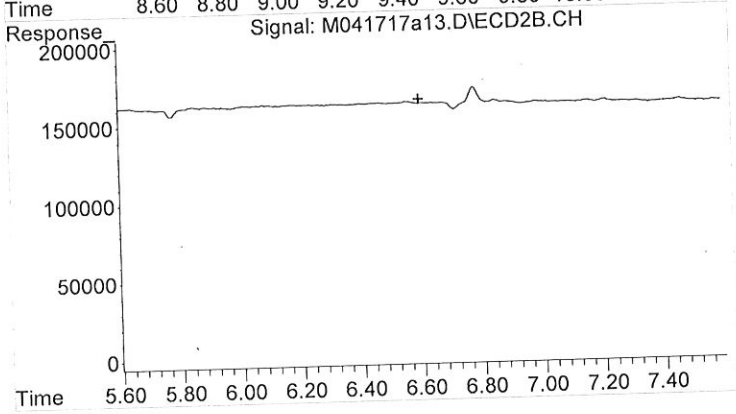
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 6.421 min
Response: 0
Conc: N.D.



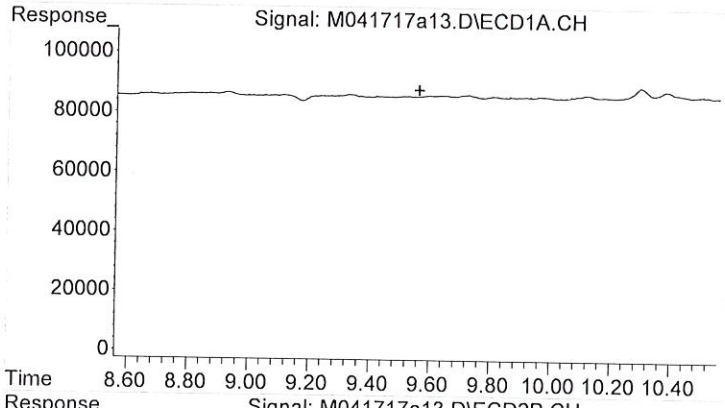
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 9.457 min
Response: 0
Conc: N.D.



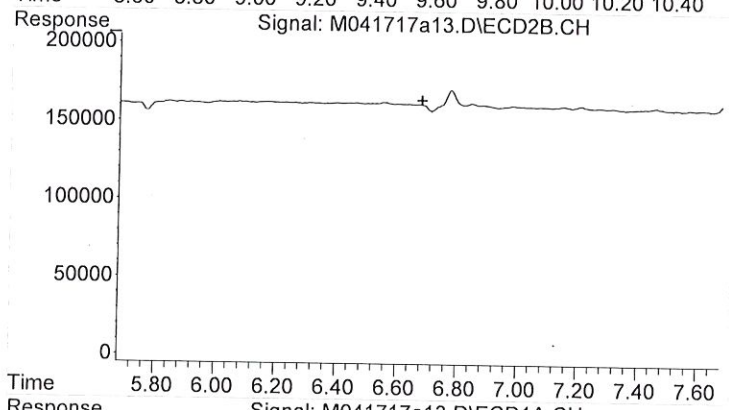
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 6.596 min
Response: 0
Conc: N.D.



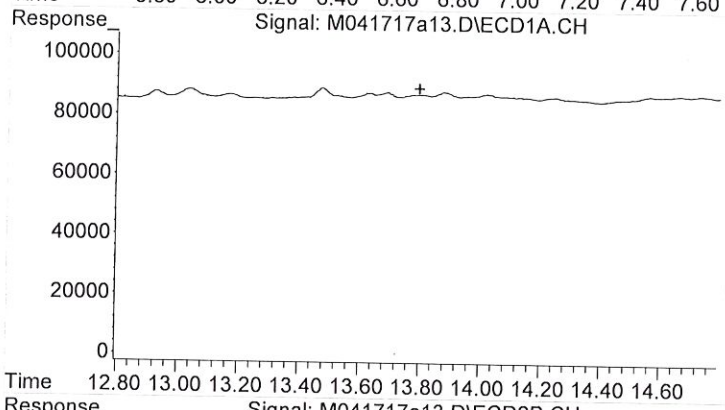
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 9.560 min
Response: 0
Conc: N.D.



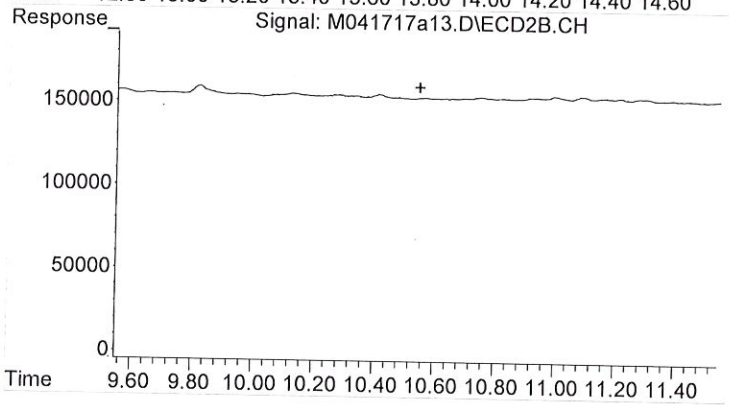
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 6.680 min
Response: 0
Conc: N.D.



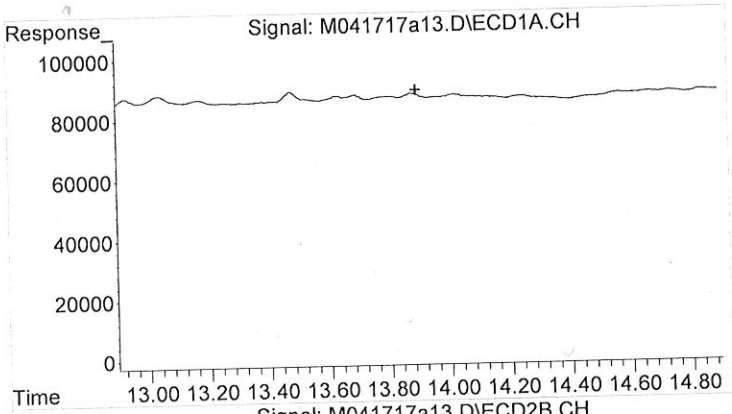
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 13.794 min
Response: 0
Conc: N.D.



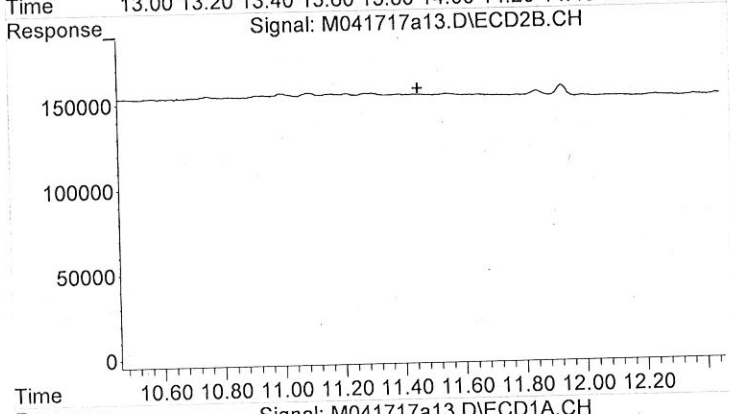
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 10.548 min
Response: 0
Conc: N.D.



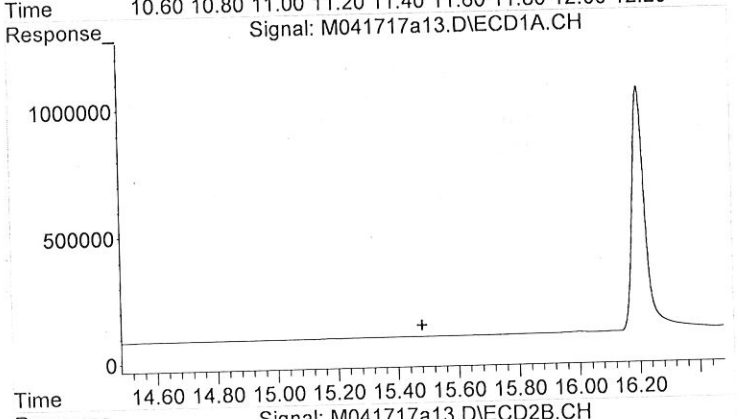
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 13.893 min
Response: 0
Conc: N.D.



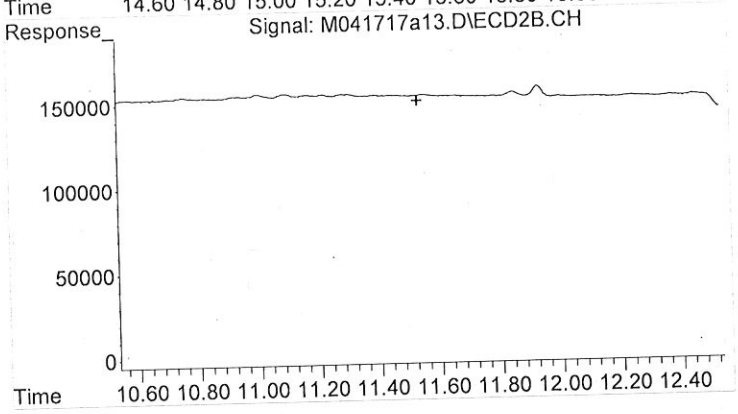
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 11.454 min
Response: 0
Conc: N.D.



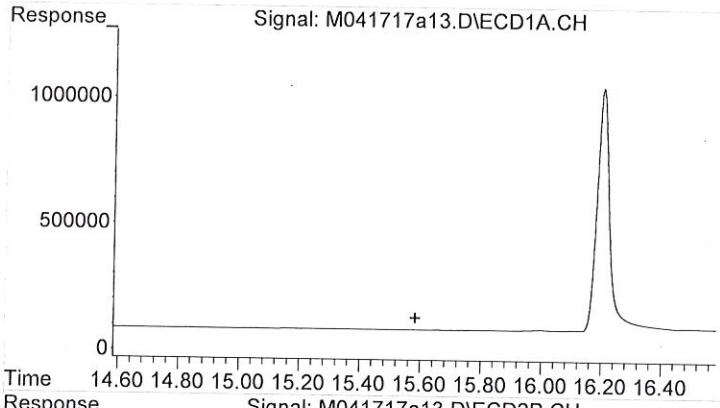
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 15.480 min
Response: 0
Conc: N.D.



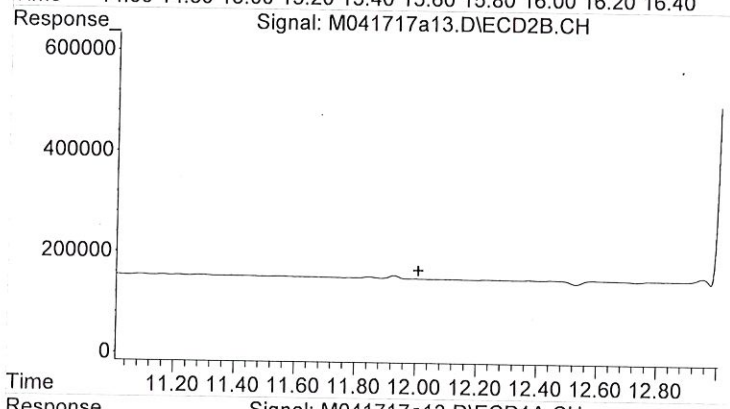
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 11.531 min
Response: 0
Conc: N.D.



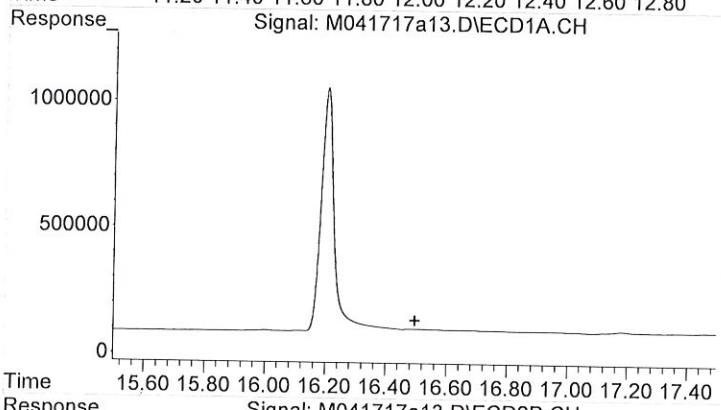
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 15.584 min
Response: 0
Conc: N.D.



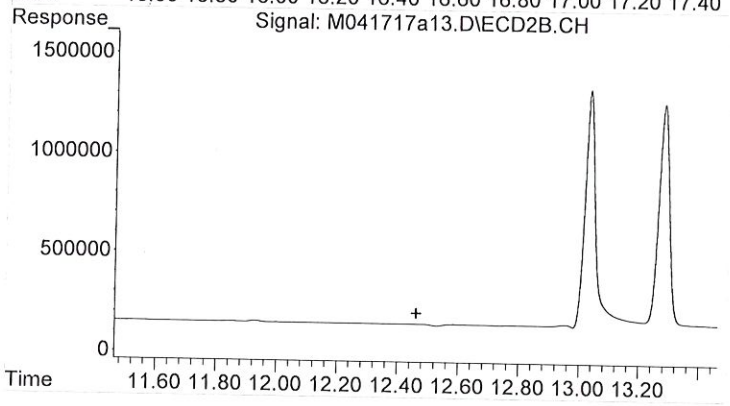
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 12.008 min
Response: 0
Conc: N.D.



#11 1260-5

R.T.: 0.000 min
Exp R.T. : 16.497 min
Response: 0
Conc: N.D.



#11 1260-5

R.T.: 0.000 min
Exp R.T. : 12.463 min
Response: 0
Conc: N.D.

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\
Data File : M041717a13.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Apr 2017 20:41 pm
Operator : DWOOD
Sample : 17154107
Misc : Sky Valley PCB Wipe 10mL fv
ALS Vial : 0 (Sig #1); 13 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 14:04:15 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32

Signal #2 Phase: CLPest2
Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	6.979	4.798	1095566	1925387	41.094	46.272
12) S2 dcb	17.762	13.280	628831	1118861	42.017	46.771
Target Compounds						
2) L1 1016 -1	0.000	5.353	0	23925	N.D.	24.486 #
3) L1 1016-2	0.000	0.000	0	0	N.D.	N.D.
4) L1 1016-3	0.000	0.000	0	0	N.D.	N.D.
5) L1 1016-4	0.000	0.000	0	0	N.D.	N.D.
6) L1 1016-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1016 -1			0	23925	N.D.	24.486
Average 1016 -1					0.000	24.486
7) L2 1260-1	0.000	0.000	0	0	N.D.	N.D.
8) L2 1260-2	0.000	0.000	0	0	N.D.	N.D.
9) L2 1260-3	0.000	0.000	0	0	N.D.	N.D.
10) L2 1260-4	0.000	0.000	0	0	N.D.	N.D.
11) L2 1260-5	16.487	0.000	4808	0	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

4/24/17

PCB Sample Results Summary

PCB

Sample.....: 17154108
Data File....: M041817a05.D
Project.....: OCE-009D
Matrix.....: 42 - Wipe
Analyzed.....: 04/18/2017 15:01
Type.....: 0

Date Prepped...: 4/17/2017
ICAL Date.....: 03/30/2017
Prep Method....: 3580A
Analysis Method: 8082A
Quant Column...: 1

Prepped By.: DWOOD
Analyst....: DWOOD
CID.....: N1
Acq. Method: M012116PCB2B.M
ASEQ Number: 5

Instrument.....: Minerva
Amount Extracted.: 40 wipe
Percent Solids...: NA
Final Volume.....: 10 mL
Dilution.....: 1x D0

Additional Info..: Sky Valley PCB Wipe 10mL fv
DP Method Path...: J:\Organics\Minerva\Methods\M033017PCB1254_41717.M
Datafile Path....: J:\Organics\Minerva\MINERVA 2017 DATA\M041817PCBDW\M041817a05.D

m = manual integration
d = deleted
U = Undetected
J = Below calibrated range
E = Exceeds calibrated range

Pk	Low Cal (pg)[1]	High Cal (pg)[1]	Compound Name	RT	Exp RT	Response		Spike (pg)[1]	Amount (pg)[1]	Result Units	Q
1	2.5	25	tmx (1)	-	-	-	d	50	0	0 %Rec <30	
7	2.5	2.5	dcb	-	-	-	d	50	0	0 %Rec <30	
9	2.5	2.5	tmx (1) #2	-	-	-	d	50	0	0 %Rec <30	
15	2.5	2.5	dcb #2	-	-	-	d	50	0	0 %Rec <30	
2	25	1000	1254 -1	10.11	10.12	9337		-	28	0.28 ug	
3	25	1000	1254-2	11.05	11.05	4879		-	29	0.29 ug	
4	25	1000	1254-3	11.43	11.44	13011		-	26	0.26 ug	
5	25	1000	1254-4	11.75	11.76	9265		-	20	0.25 ug (RL)	U
6	25	1000	1254-5	11.94	11.95	7729		-	29	0.29 ug	
10	25	1000	1254 -1 #2	6.83	6.85	26779		-	31	0.31 ug	
11	25	1000	1254-2 #2	7.16	7.15	23601		-	52	0.52 ug	
12	25	1000	1254-3 #2	7.75	7.75	51740		-	66	0.66 ug	
13	25	1000	1254-4 #2	8.12	8.12	40015		-	55	0.55 ug	
14	25	1000	1254-5 #2	8.41	8.41	29155		-	48	0.48 ug	

CAS#	Name	Avg	Unit	n	%RSD	Column RPD[2]
11097691	1254 Column 1	0.28	ug	4	6 %	
11097691	1254 Column 2	0.50	ug	5	25 %	57 %

Results will be reported from Column 1

[1]'Amount' units are pg or pg/uL on column. [2]RPD (Relative Percent Difference) is the percent difference between the result of column 1 and the result of column 2. The values are calculated using the non-rounded average result values. (|A-B|/((A+B)*0.5))*100 is the formula used for the calculation. The value should nominally be <= 40%.

Sample Concentration = (Amt)*(Final Volume[mL])*(Dilution)/Amount Extracted = ug/L, ug/kg, ug/g, or ug.

Generated Tue Apr 25 10:02:00 2017

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041817PCBDW\
Data File : M041817a05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Apr 2017 15:01 pm
Operator : DWOOD
Sample : 17154108
Misc : Sky Valley PCB Wipe 10mL fv
ALS Vial : 0 (Sig #1); 4 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Apr 24 16:04:02 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 24 15:30:48 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32
Signal #2 Phase: CLPest2
Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	0.000	0.000	0	0	N.D. d	N.D. d
7) S2 dcb	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) L1 1254 -1	10.115	6.835	9337	26779	28.248	30.967
3) L1 1254-2	11.046	7.155	4879	23601	29.499	52.494 #
4) L1 1254-3	11.432	7.749	13011	51740	25.628	65.808 #
5) L1 1254-4	11.753	8.122	9265	40015	20.053	54.697 #
6) L1 1254-5	11.940	8.406	7729	29155	28.843	48.062 #
Sum 1254 -1			44219	171290	132.271	252.028
Average 1254 -1					26.454	50.406

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

lw
4/25/17

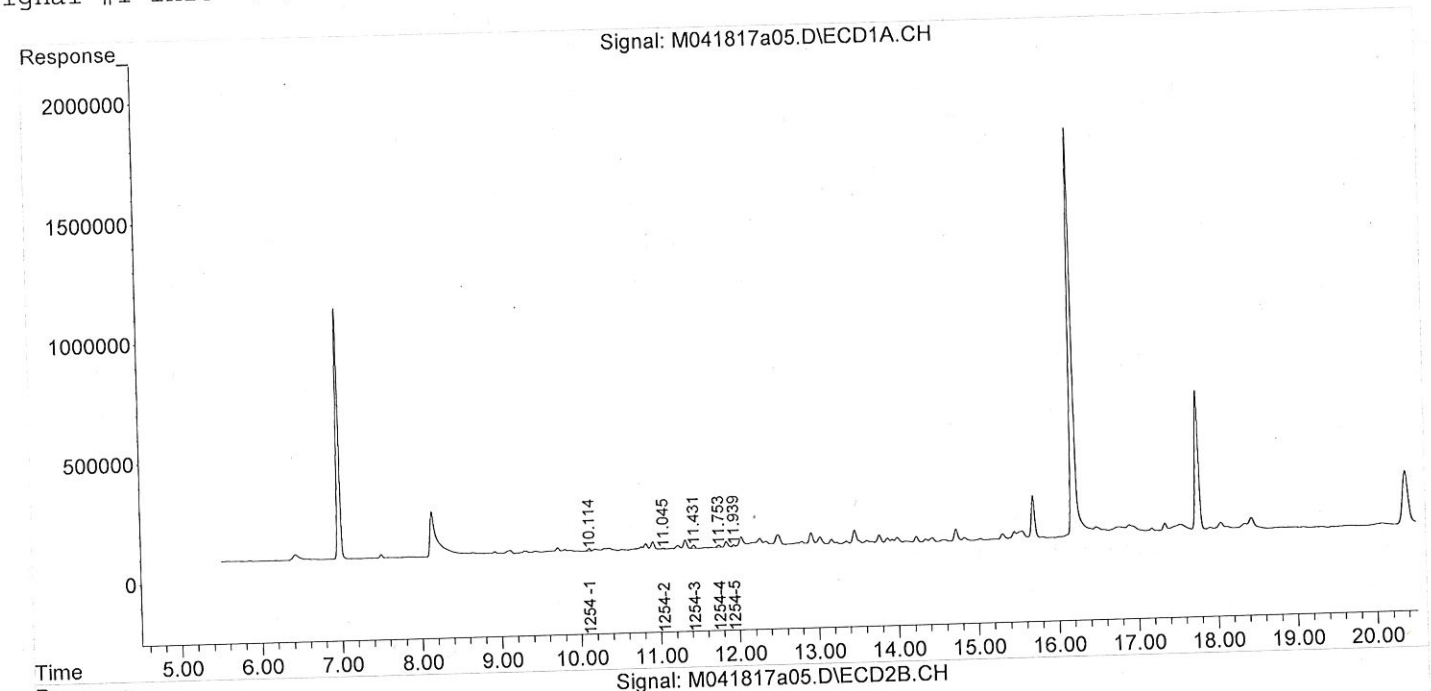
Quantitation Report (QT Reviewed)

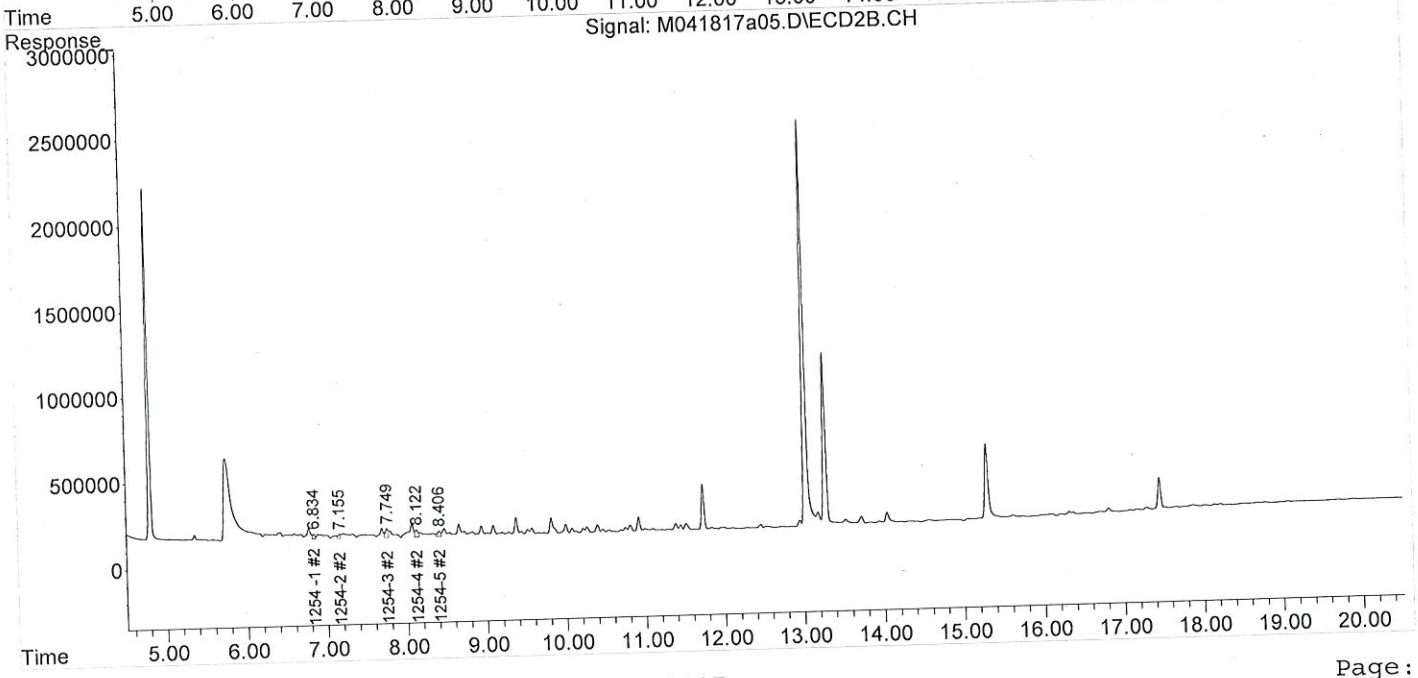
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041817PCBDW\
Data File : M041817a05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Apr 2017 15:01 pm
Operator : DWOOD
Sample : 17154108
Misc : Sky Valley PCB Wipe 10mL fv
ALS Vial : 0 (Sig #1); 4 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Apr 24 16:04:02 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 24 15:30:48 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

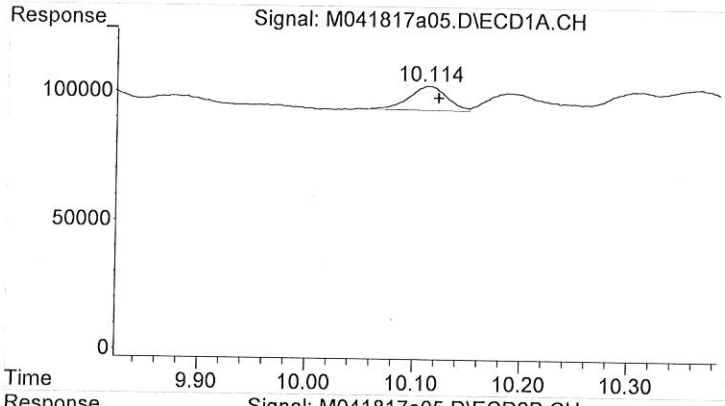
Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32

Signal #2 Phase: CLPest2
Signal #2 Info : .32



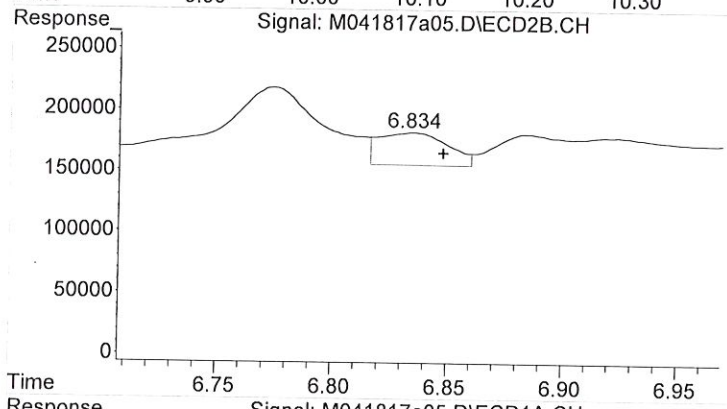


M033017PCB1254_41717.M Tue Apr 25 09:51:32 2017



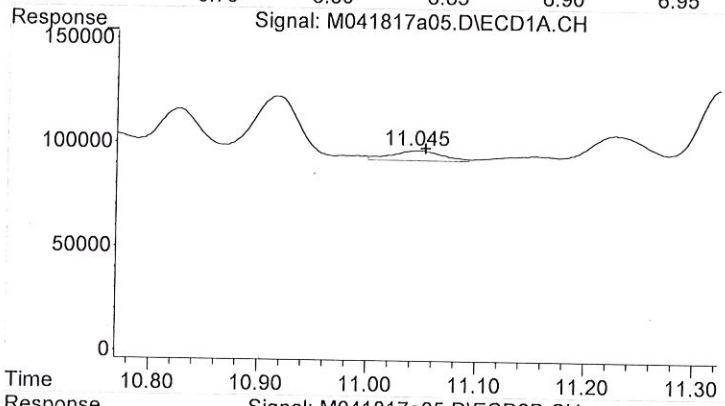
#2 1254 -1

R.T.: 10.115 min
Delta R.T.: -0.007 min
Response: 9337
Conc: 28.25 pg/uL



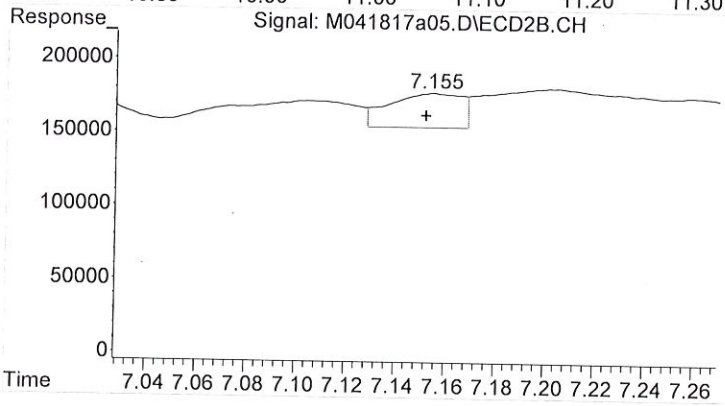
#2 1254 -1

R.T.: 6.835 min
Delta R.T.: -0.013 min
Response: 26779
Conc: 30.97 pg/uL



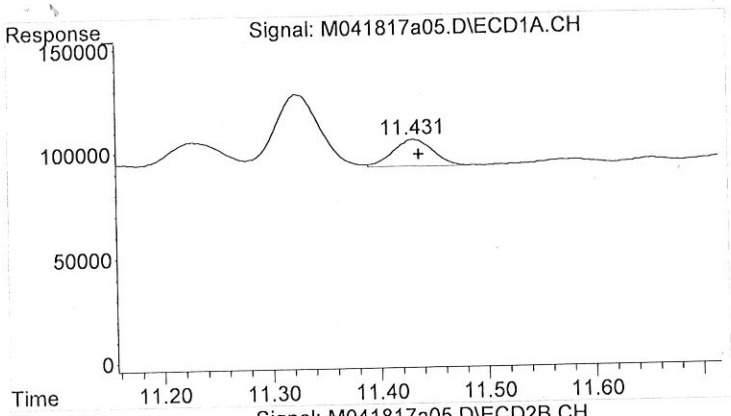
#3 1254-2

R.T.: 11.046 min
Delta R.T.: -0.007 min
Response: 4879
Conc: 29.50 pg/uL



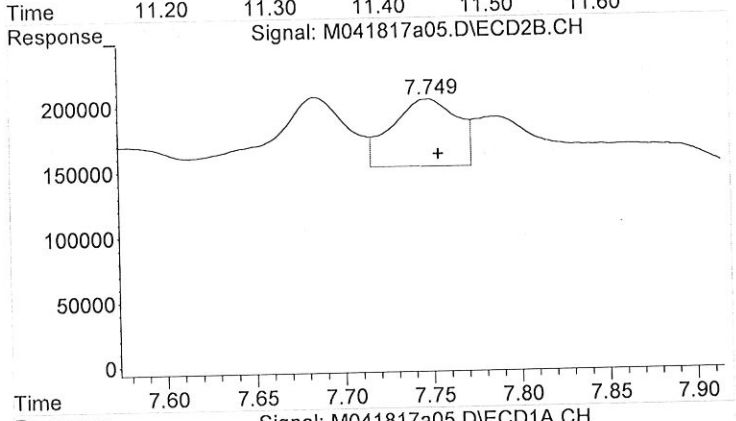
#3 1254-2

R.T.: 7.155 min
Delta R.T.: 0.003 min
Response: 23601
Conc: 52.49 pg/uL



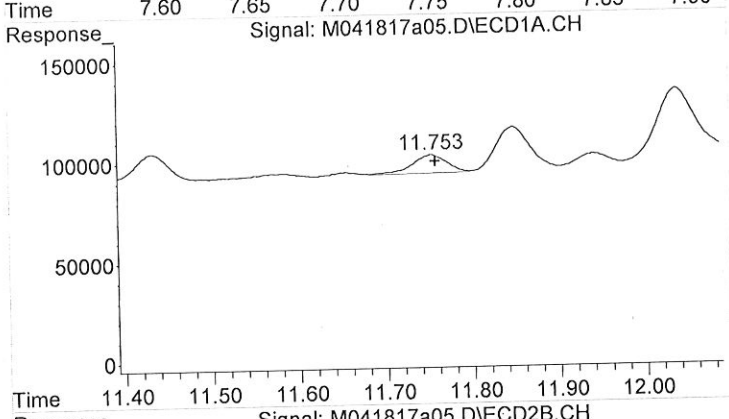
#4 1254-3

R.T.: 11.432 min
Delta R.T.: -0.005 min
Response: 13011
Conc: 25.63 pg/uL



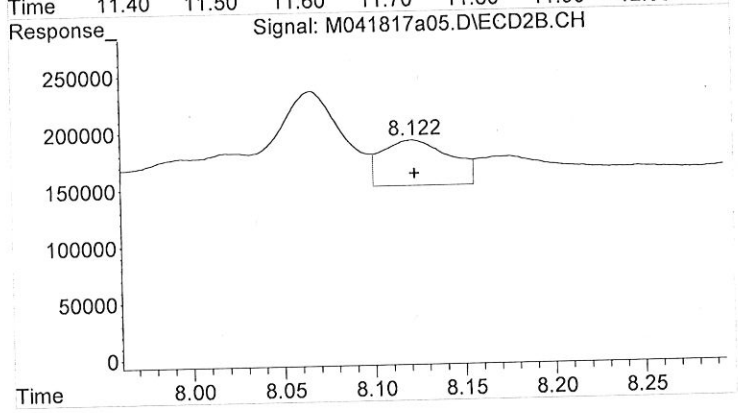
#4 1254-3

R.T.: 7.749 min
Delta R.T.: -0.005 min
Response: 51740
Conc: 65.81 pg/uL



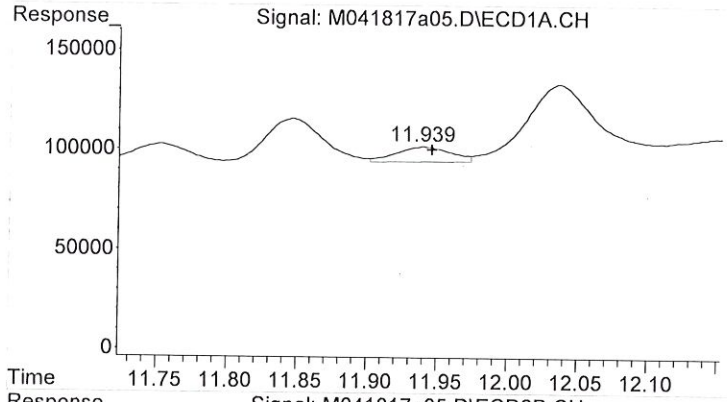
#5 1254-4

R.T.: 11.753 min
Delta R.T.: -0.004 min
Response: 9265
Conc: 20.05 pg/uL



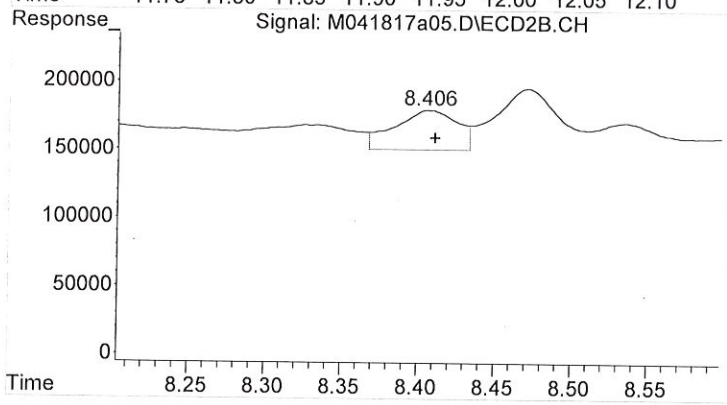
#5 1254-4

R.T.: 8.122 min
Delta R.T.: -0.001 min
Response: 40015
Conc: 54.70 pg/uL



#6 1254-5

R.T.: 11.940 min
Delta R.T.: -0.006 min
Response: 7729
Conc: 28.84 pg/uL



#6 1254-5

R.T.: 8.406 min
Delta R.T.: -0.005 min
Response: 29155
Conc: 48.06 pg/uL

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041817PCBDW\
Data File : M041817a05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Apr 2017 15:01 pm
Operator : DWOOD
Sample : 17154108
Misc : Sky Valley PCB Wipe 10mL fv
ALS Vial : 0 (Sig #1); 4 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Apr 24 15:50:11 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 24 15:30:48 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32

Signal #2 Phase: CLPest2
Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	0.000	5.097	0	~~3274~~	N.D.	NoCal
7) S2 dcb	18.050	13.825	~~36376~~	~~10831~~	NoCal	NoCal
Target Compounds						
2) L1 1254 -1	10.115	6.835	9337	26779	28.248	30.967
3) L1 1254-2	11.046	7.155	4879	23601	29.499	52.494 #
4) L1 1254-3	11.432	7.749	13011	51740	25.628	65.808 #
5) L1 1254-4	11.753	8.122	9265	40015	20.053	54.697 #
6) L1 1254-5	11.940	8.406	7729	29155	28.843	48.062 #
Sum 1254 -1			44219	171290	132.271	252.028
Average 1254 -1					26.454	50.406

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

4/24/17

- Blanks
    a. Custom Report, if available
    b. Quan Report (Quant – Generate Report – Detailed, only hits)
    c. Detailed Graphics (Detailed Report + Thumbnail)

PCB

PCB Sample Results Summary

Sample.....: 92041717B1
Data File....: M041717a03.D
Project.....: OCE-009D
Matrix.....: 42 - Wipe
Analyzed.....: 04/17/2017 16:34
Type.....: BL
Additional Info..: Sky Valley PCB Wipe 10mL fv
DP Method Path...: J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Datafile Path....: J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\M041717a03.D

Date Prepped...: 4/17/2017
ICAL Date.....: 03/21/2017
Prep Method....: 3580A
Analysis Method: 8082A
Quant Column...: 1

Prepped By.: DWOOD
Analyst....: DWOOD
CID.....: 0
Acq. Method: M012116PCB2B.M
ASEQ Number: 3

Instrument.....: Minerva
Amount Extracted.: 40 wipe
Percent Solids...: NA
Final Volume.....: 10 mL
Dilution.....: 1x D0

m = manual integration
d = deleted
U = Undetected
J = Below calibrated range
E = Exceeds calibrated range

Pk	Low Cal (pg)[1]	High Cal (pg)[1]	Compound Name	RT	Exp RT	Response		Spike (pg)[1]	Amount (pg)[1]	Result Units	Q
1	2.5	250	tmx (1)	6.98	6.99	886967		50	33	66 %Rec	
12	2.5	250	dcb	17.77	17.79	524554		50	35	70 %Rec	
14	2.5	250	tmx (1) #2	4.80	4.80	1562740		50	37	75 %Rec	
25	2.5	250	dcb #2	13.28	13.28	925237		50	39	77 %Rec	
2	25	1000	1016 -1	-	-	-	d	-	-	0.25 ug (RL)	U
3	25	1000	1016-2	-	-	-		-	-	0.25 ug (RL)	U
4	25	1000	1016-3	-	-	-		-	-	0.25 ug (RL)	U
5	25	1000	1016-4	-	-	-		-	-	0.25 ug (RL)	U
6	25	1000	1016-5	-	-	-		-	-	0.25 ug (RL)	U
7	25	1000	1260-1	-	-	-		-	-	0.25 ug (RL)	U
8	25	1000	1260-2	-	-	-		-	-	0.25 ug (RL)	U
9	25	1000	1260-3	-	-	-		-	-	0.25 ug (RL)	U
10	25	1000	1260-4	-	-	-	d	-	-	0.25 ug (RL)	U
11	25	1000	1260-5	-	-	-	d	-	-	0.25 ug (RL)	U
15	25	1000	1016 -1 #2	-	-	-	d	-	-	0.25 ug (RL)	U
16	25	1000	1016-2 #2	-	-	-		-	-	0.25 ug (RL)	U
17	25	1000	1016-3 #2	-	-	-		-	-	0.25 ug (RL)	U
18	25	1000	1016-4 #2	-	-	-		-	-	0.25 ug (RL)	U
19	25	1000	1016-5 #2	-	-	-		-	-	0.25 ug (RL)	U
20	25	1000	1260-1 #2	-	-	-		-	-	0.25 ug (RL)	U
21	25	1000	1260-2 #2	-	-	-		-	-	0.25 ug (RL)	U
22	25	1000	1260-3 #2	-	-	-		-	-	0.25 ug (RL)	U
23	25	1000	1260-4 #2	-	-	-	d	-	-	0.25 ug (RL)	U
24	25	1000	1260-5 #2	-	-	-	d	-	-	0.25 ug (RL)	U

CAS#	Name	Avg	Unit	n	%RSD	Column RPD[2]
12674112	1016 Column 1	0.25	ug (RL)	0	NA	Results will be reported from Column 1
12674112	1016 Column 2	0.25	ug (RL)	0	NA	
11096825	1260 Column 1	0.25	ug (RL)	0	NA	
11096825	1260 Column 2	0.25	ug (RL)	0	NA	

[1]'Amount' units are pg or pg/uL on column. [2]RPD (Relative Percent Difference) is the percent difference between the result of column 1 and the result of column 2. The values are calculated using the non-rounded average result values. (|A-B|/((A+B)*0.5))*100 is the formula used for the calculation. The value should nominally be <= 40%.

Sample Concentration = (Amt)*(Final Volume[mL])*(Dilution)/Amount Extracted = ug/L, ug/kg, ug/g, or ug.

Generated Tue Apr 25 10:01:08 2017

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\
Data File : M041717a03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Apr 2017 4:34 pm
Operator : DWOOD
Sample : 92041717B1
Misc : Sky Valley PCB Wipe 10mL fv
ALS Vial : 0 (Sig #1); 3 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 14:51:09 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32
Signal #2 Phase: CLPest2
Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	6.981	4.798	886967	1562736	33.174	37.391
12) S2 dcb	17.766	13.279	524554	925237	34.840	38.640
Target Compounds						
2) L1 1016 -1	0.000	0.000	0	0	N.D. d	N.D. d
3) L1 1016-2	0.000	0.000	0	0	N.D.	N.D.
4) L1 1016-3	0.000	0.000	0	0	N.D.	N.D.
5) L1 1016-4	0.000	0.000	0	0	N.D.	N.D.
6) L1 1016-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1016 -1			0	0	N.D.	N.D.
Average 1016 -1					0.000	0.000
7) L2 1260-1	0.000	0.000	0	0	N.D.	N.D.
8) L2 1260-2	0.000	0.000	0	0	N.D.	N.D.
9) L2 1260-3	0.000	0.000	0	0	N.D.	N.D.
10) L2 1260-4	0.000	0.000	0	0	N.D. d	N.D. d
11) L2 1260-5	0.000	0.000	0	0	N.D. d	N.D. d
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ww
4/24/17

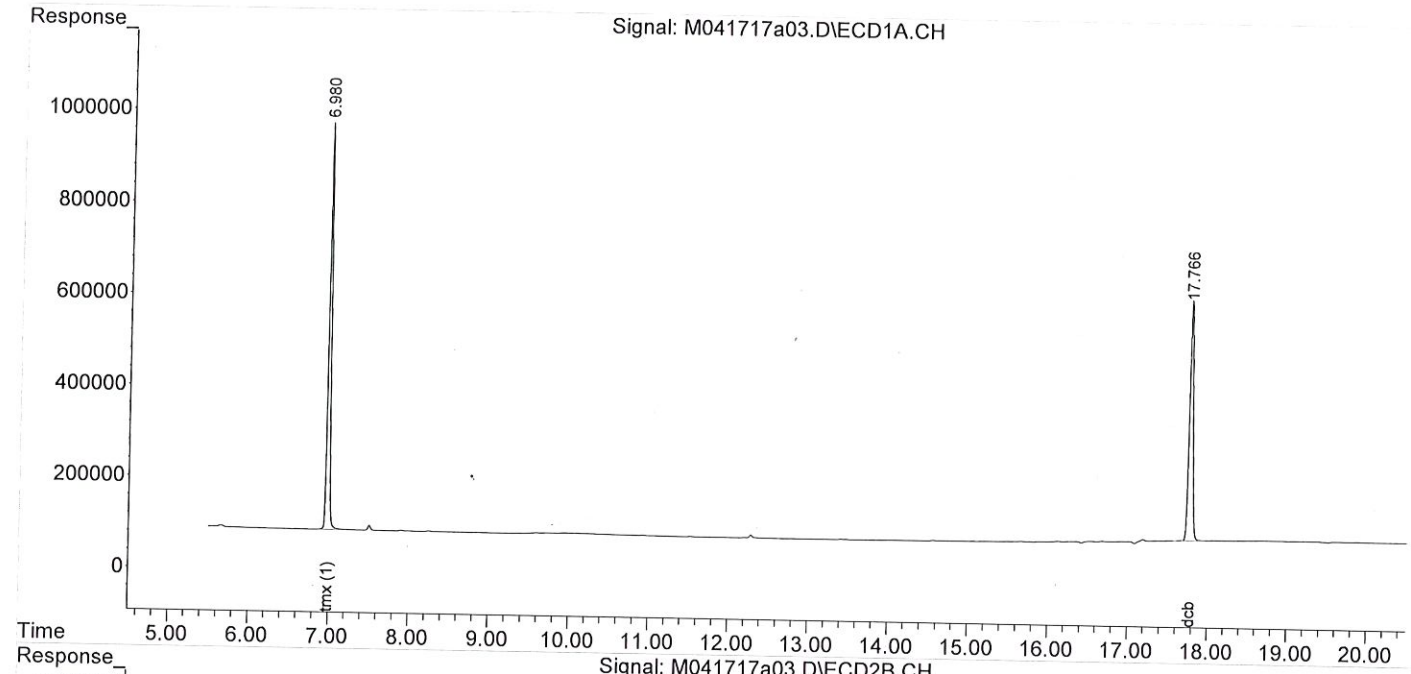
Quantitation Report (QT Reviewed)

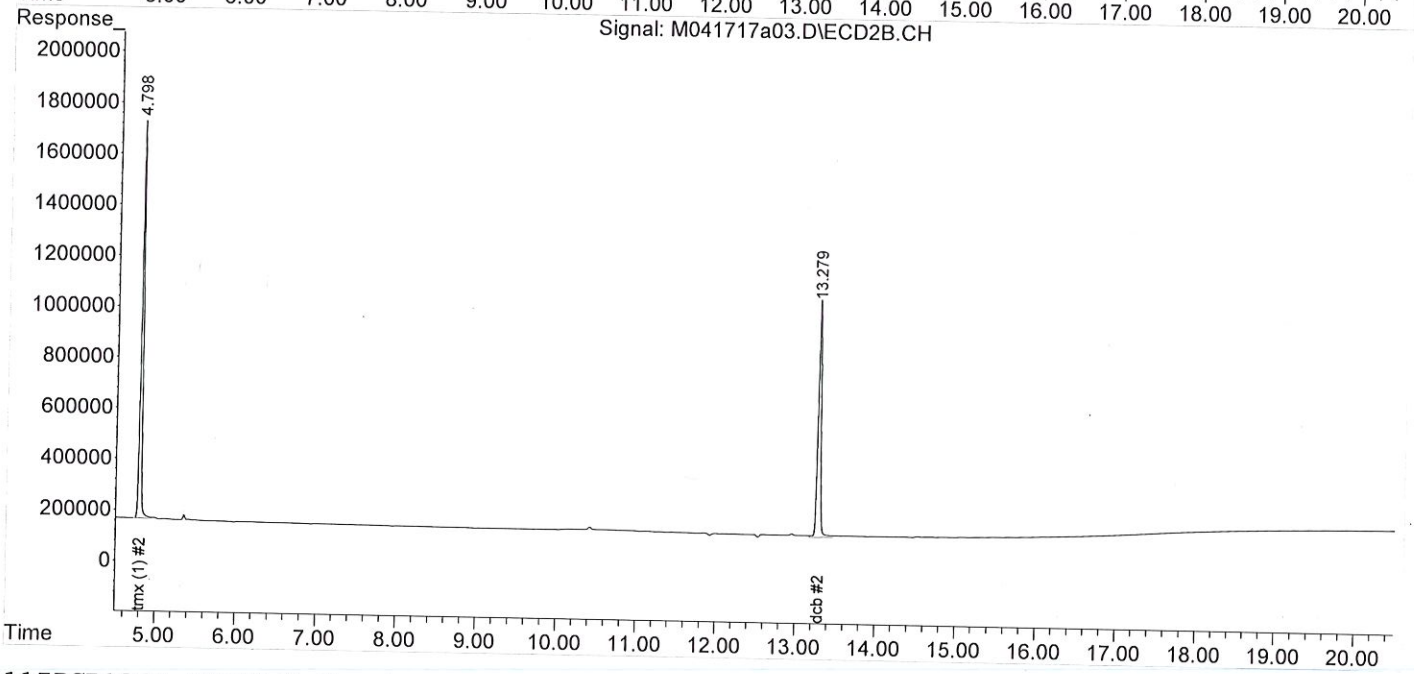
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\
Data File : M041717a03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Apr 2017 4:34 pm
Operator : DWOOD
Sample : 92041717B1
Misc : Sky Valley PCB Wipe 10mL fv
ALS Vial : 0 (Sig #1); 3 (Sig #2) Sample Multiplier: 1

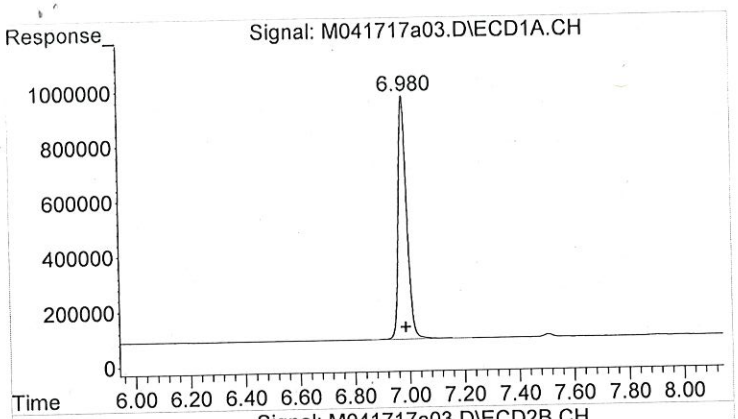
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 14:51:09 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32

Signal #2 Phase: CLPest2
Signal #2 Info : .32

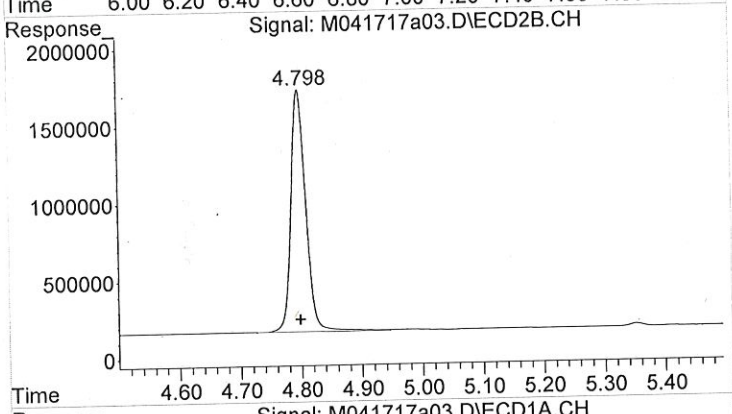






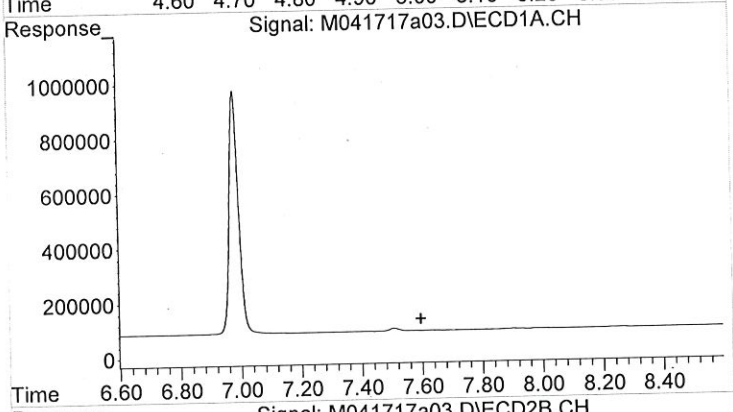
#1 tmx (1)

R.T.: 6.981 min
Delta R.T.: -0.005 min
Response: 886967
Conc: 33.17 pg/uL



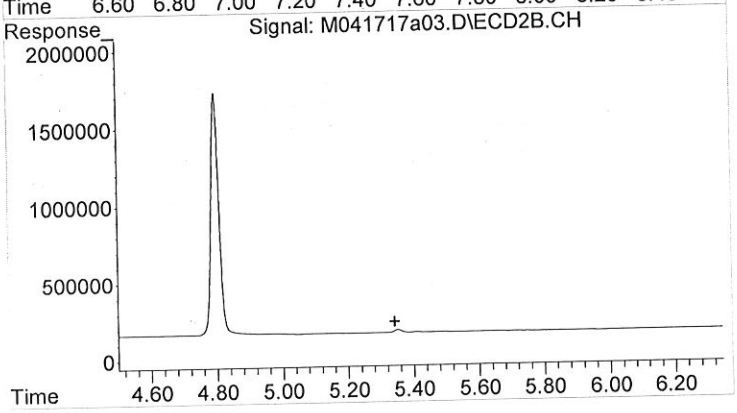
#1 tmx (1)

R.T.: 4.798 min
Delta R.T.: -0.001 min
Response: 1562736
Conc: 37.39 pg/uL



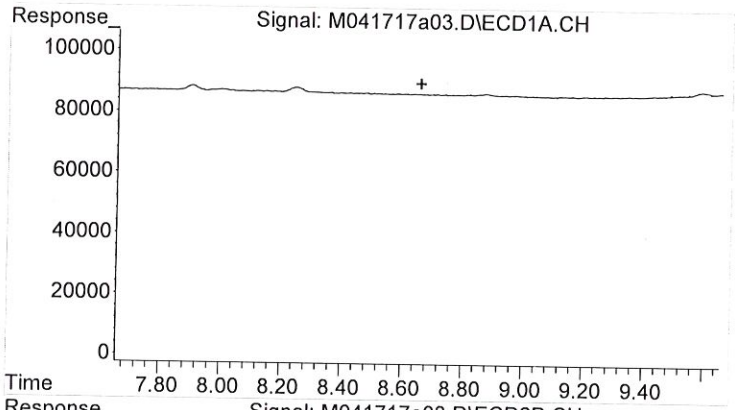
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 7.596 min
Response: 0
Conc: N.D.



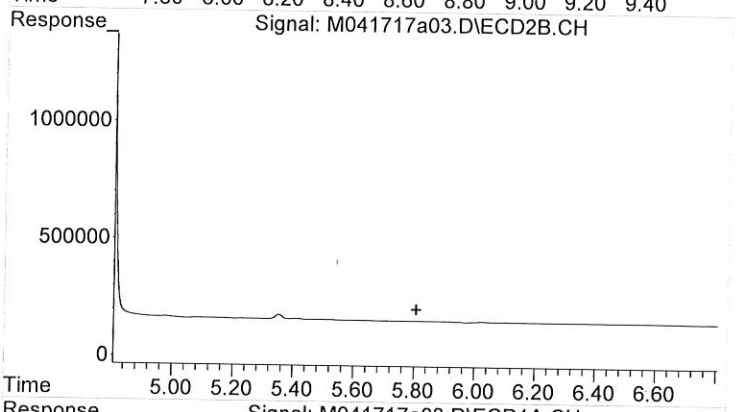
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 5.343 min
Response: 0
Conc: N.D.



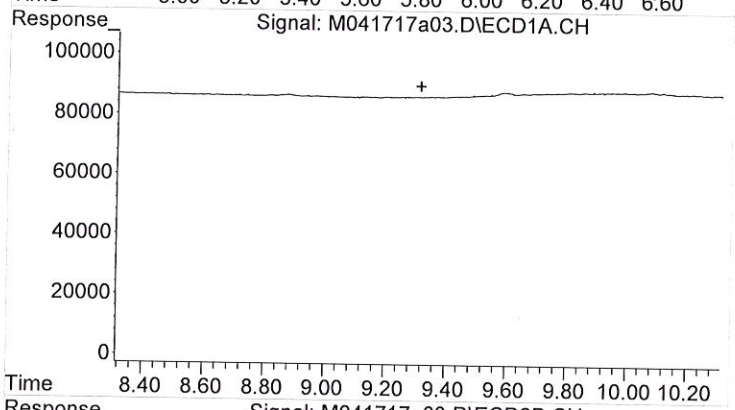
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 8.659 min
Response: 0
Conc: N.D.



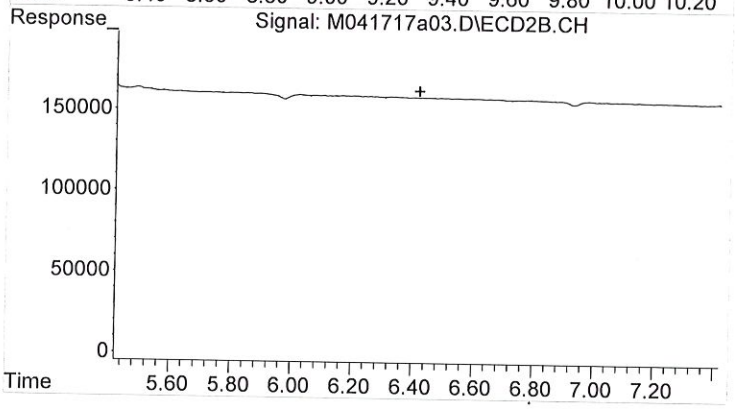
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 5.807 min
Response: 0
Conc: N.D.



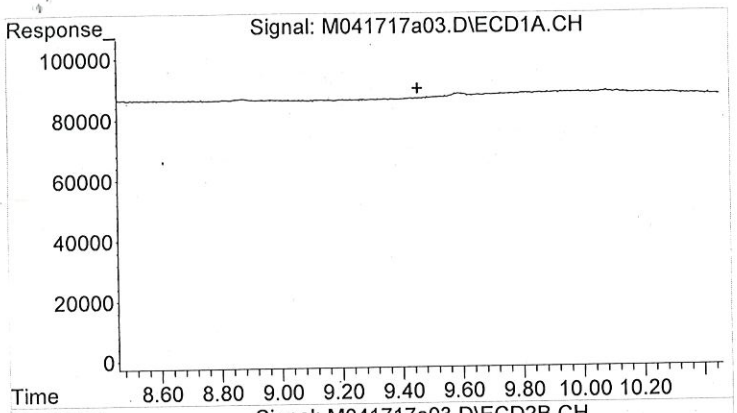
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 9.314 min
Response: 0
Conc: N.D.



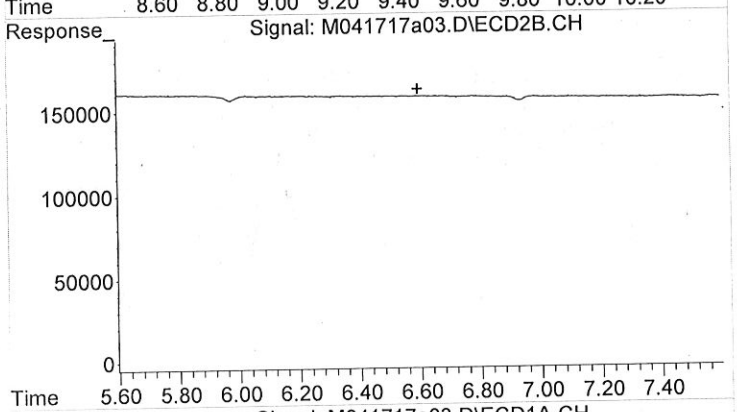
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 6.421 min
Response: 0
Conc: N.D.



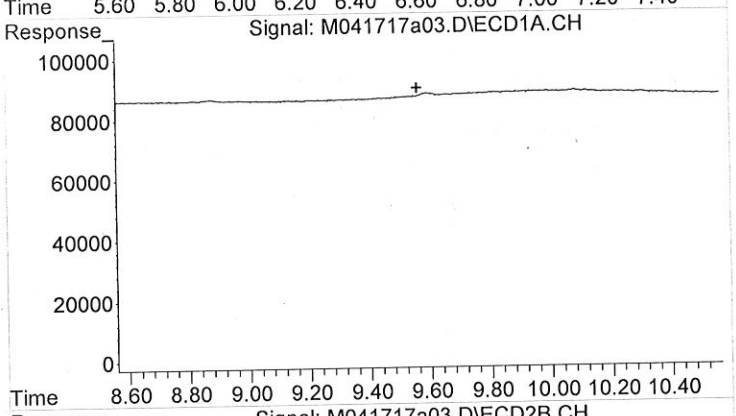
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 9.457 min
Response: 0
Conc: N.D.



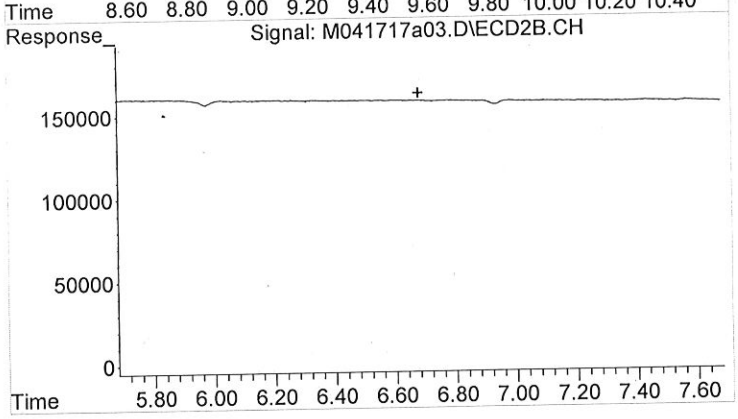
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 6.596 min
Response: 0
Conc: N.D.



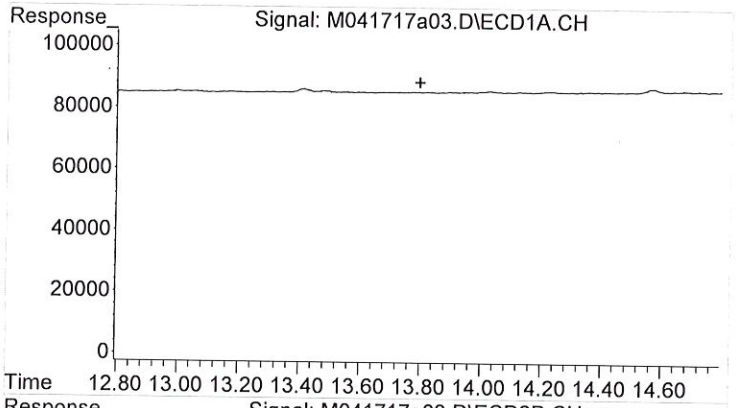
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 9.560 min
Response: 0
Conc: N.D.



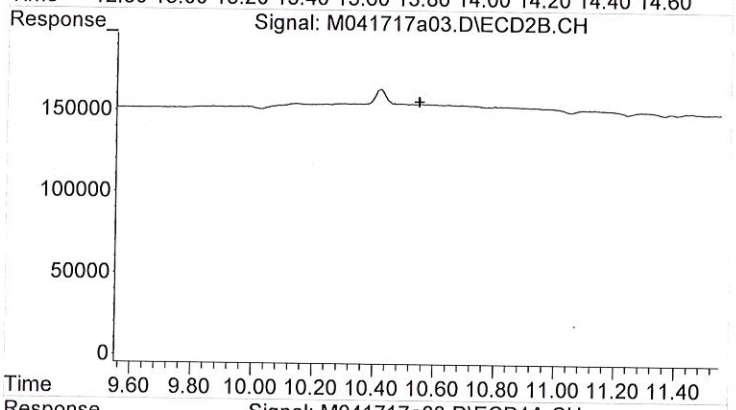
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 6.680 min
Response: 0
Conc: N.D.



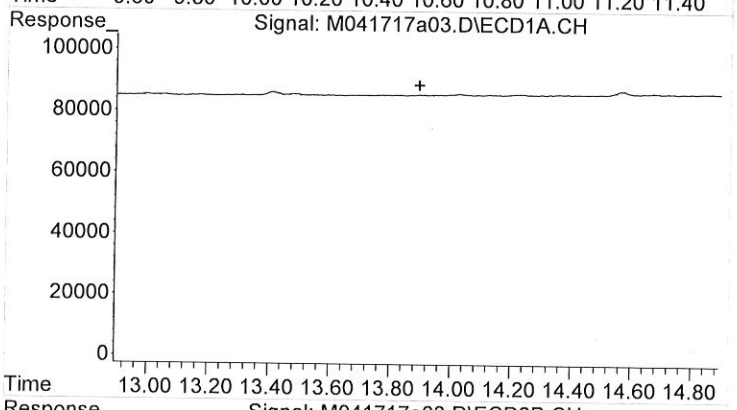
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 13.794 min
Response: 0
Conc: N.D.



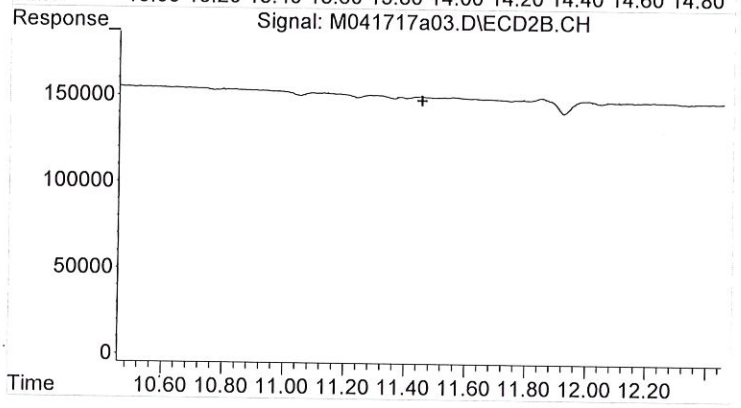
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 10.548 min
Response: 0
Conc: N.D.



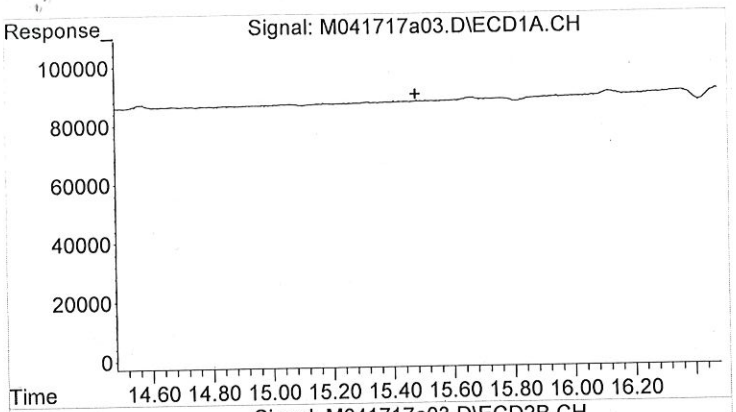
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 13.893 min
Response: 0
Conc: N.D.



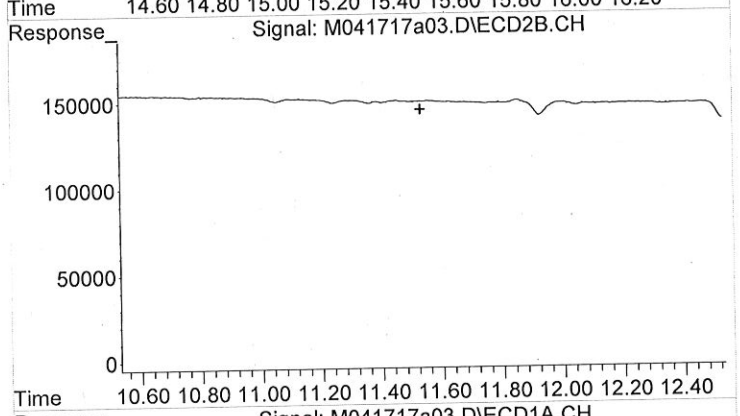
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 11.454 min
Response: 0
Conc: N.D.



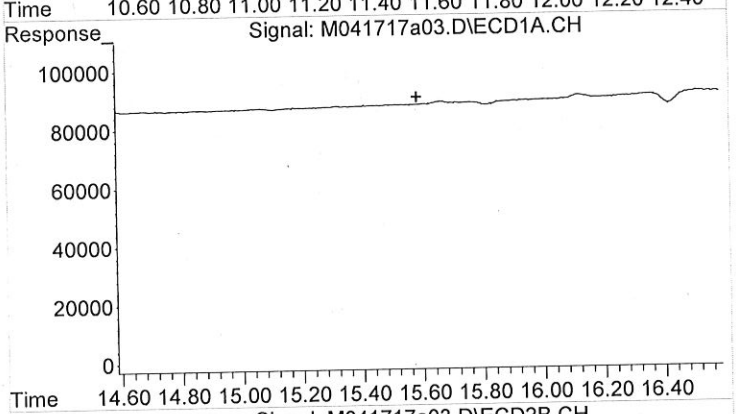
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 15.480 min
Response: 0
Conc: N.D.



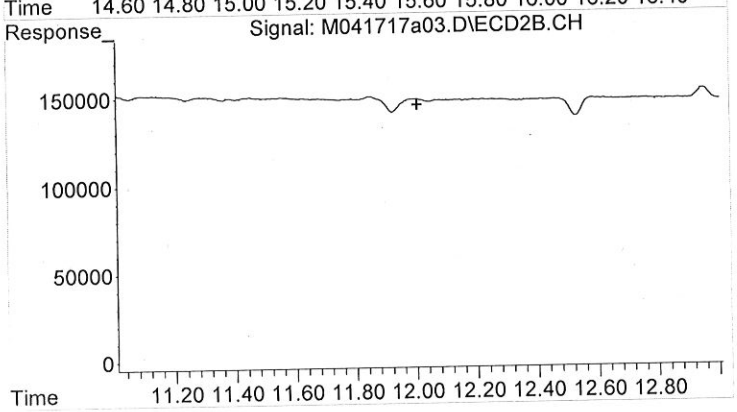
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 11.531 min
Response: 0
Conc: N.D.



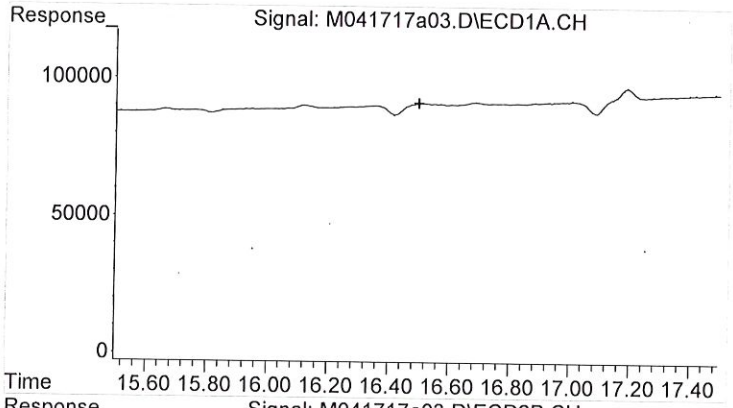
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 15.584 min
Response: 0
Conc: N.D.



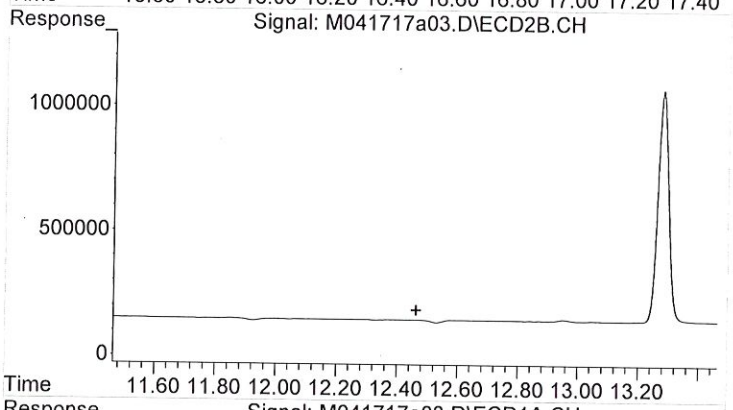
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 12.008 min
Response: 0
Conc: N.D.



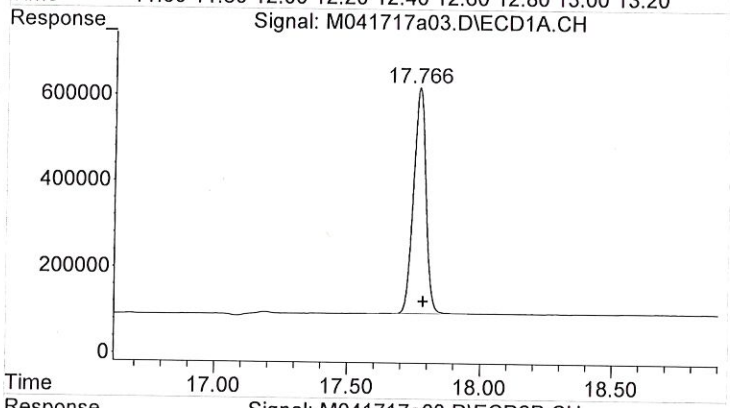
#11 1260-5

R.T.: 0.000 min
Exp R.T. : 16.497 min
Response: 0
Conc: N.D.



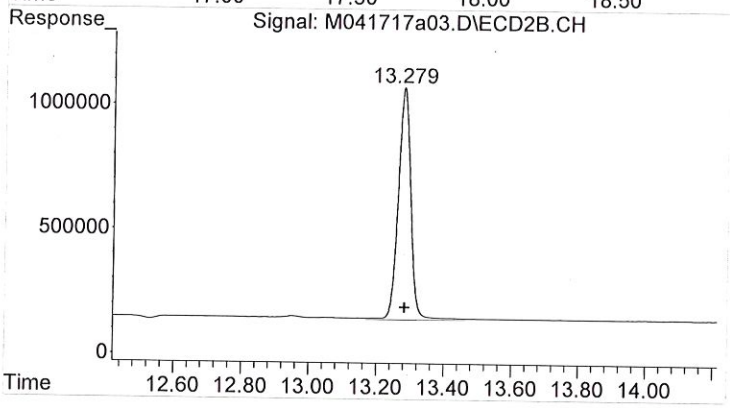
#11 1260-5

R.T.: 0.000 min
Exp R.T. : 12.463 min
Response: 0
Conc: N.D.



#12 dcb

R.T.: 17.766 min
Delta R.T.: -0.019 min
Response: 524554
Conc: 34.84 pg/uL



#12 dcb

R.T.: 13.279 min
Delta R.T.: -0.005 min
Response: 925237
Conc: 38.64 pg/uL

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\
Data File : M041717a03.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Apr 2017 16:34 pm
Operator : DWOOD
Sample : 92041717B1
Misc : Sky Valley PCB Wipe 10mL fv
ALS Vial : 0 (Sig #1); 3 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 14:02:50 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32
Signal #2 Phase: CLPest2
Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	6.981	4.798	886967	1562736	33.174	37.391
12) S2 dcb	17.766	13.279	524554	925237	34.840	38.640
Target Compounds						
2) L1 1016 -1	0.000	5.352	0	~~18918~~ hw	N.D.	18.237 #
3) L1 1016-2	0.000	0.000	0	0	N.D.	N.D.
4) L1 1016-3	0.000	0.000	0	0	N.D.	N.D.
5) L1 1016-4	0.000	0.000	0	0	N.D.	N.D.
6) L1 1016-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1016 -1			0	18918	N.D.	18.237
Average 1016 -1					0.000	18.237
7) L2 1260-1	0.000	0.000	0	0	N.D.	N.D.
8) L2 1260-2	0.000	0.000	0	0	N.D.	N.D.
9) L2 1260-3	0.000	0.000	0	0	N.D.	N.D.
10) L2 1260-4	0.000	12.006	0	~~7800~~ hw	N.D.	22.252 #
11) L2 1260-5	0.000	12.460	0	~~9074~~ hw	N.D.	11.488 #
Sum 1260-1			0	16874	N.D.	33.740
Average 1260-1					0.000	16.870

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

hw
4/24/17

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\
Data File : M041717a01.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Apr 2017 3:45 pm
Operator : DWOOD
Sample : 87PCB102416C
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 1 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 14:49:58 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32
Signal #2 Phase: CLPest2
Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	6.981	4.799	2251744	4239597	84.991	102.944
12) S2 dcb	17.769	13.282	1162636	2212865	78.758	92.712
Target Compounds						
2) L1 1016 -1	0.000	0.000	0	0	N.D. d	N.D. d
3) L1 1016-2	0.000	0.000	0	0	N.D.	N.D.
4) L1 1016-3	0.000	0.000	0	0	N.D.	N.D.
5) L1 1016-4	0.000	0.000	0	0	N.D.	N.D.
6) L1 1016-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1016 -1			0	0	N.D.	N.D.
Average 1016 -1					0.000	0.000
7) L2 1260-1	0.000	0.000	0	0	N.D.	N.D.
8) L2 1260-2	0.000	0.000	0	0	N.D.	N.D.
9) L2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
10) L2 1260-4	0.000	0.000	0	0	N.D.	N.D.
11) L2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

MW
4/24/17

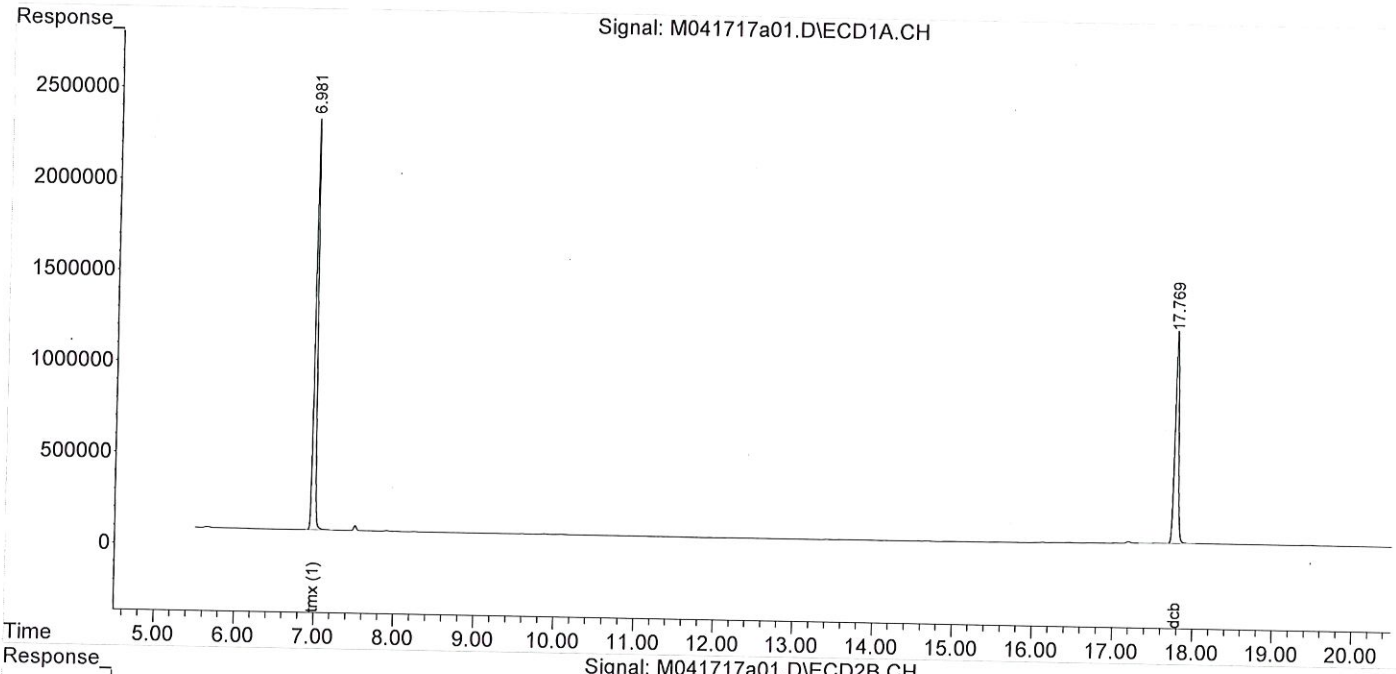
Quantitation Report (QT Reviewed)

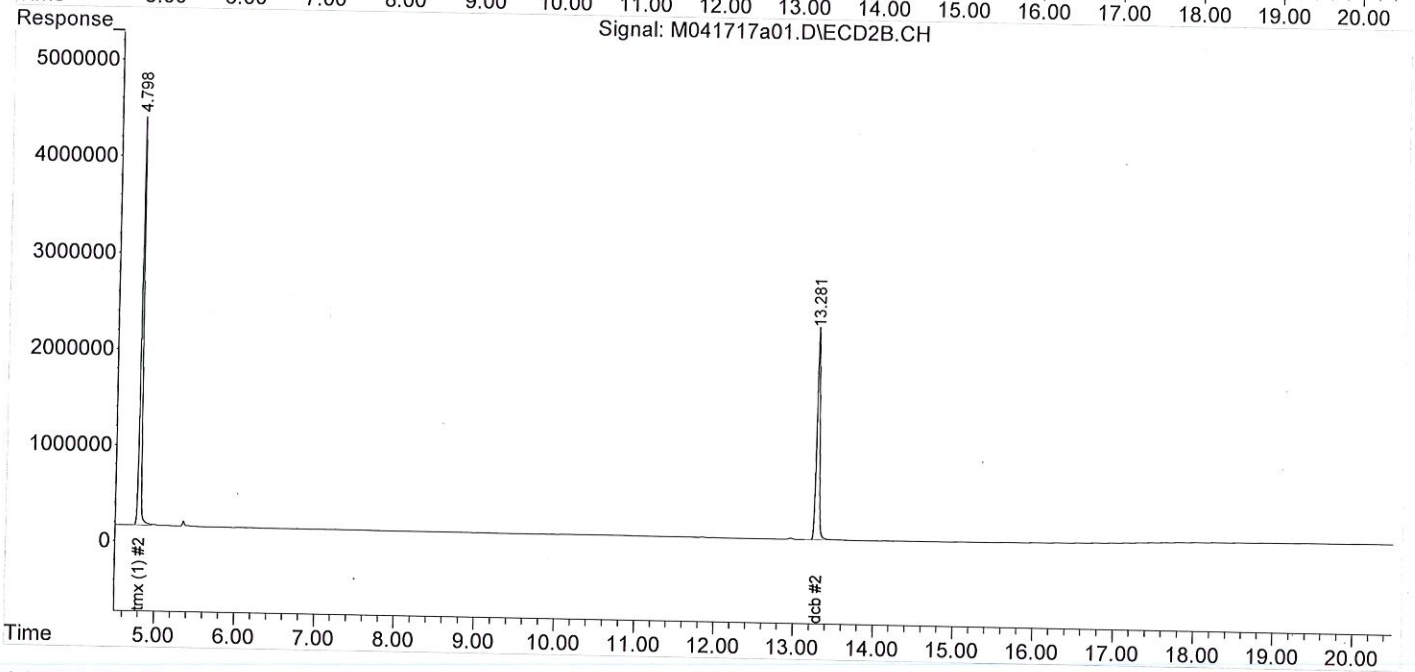
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\
Data File : M041717a01.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Apr 2017 3:45 pm
Operator : DWOOD
Sample : 87PCB102416C
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 1 (Sig #2) Sample Multiplier: 1

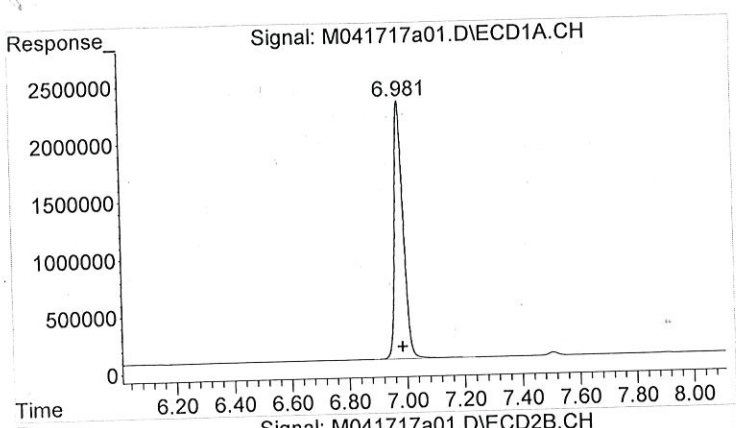
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 14:49:58 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32

Signal #2 Phase: CLPest2
Signal #2 Info : .32

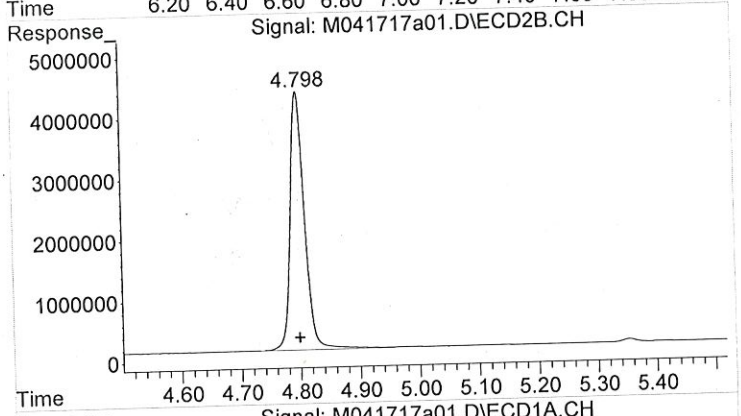






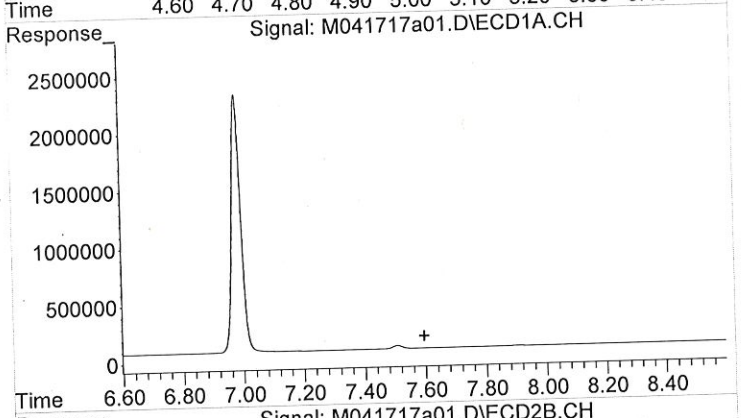
#1 tmx (1)

R.T.: 6.981 min
Delta R.T.: -0.005 min
Response: 2251744
Conc: 84.99 pg/uL



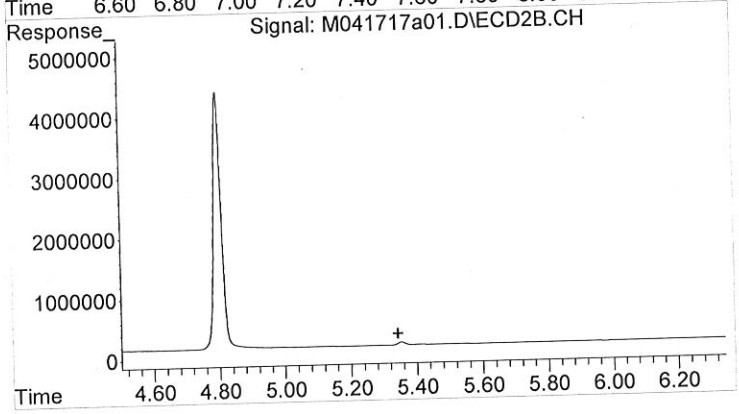
#1 tmx (1)

R.T.: 4.799 min
Delta R.T.: 0.000 min
Response: 4239597
Conc: 102.94 pg/uL



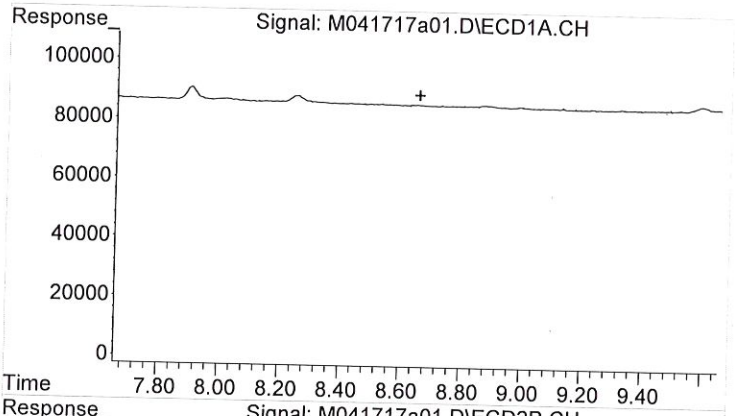
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 7.596 min
Response: 0
Conc: N.D.



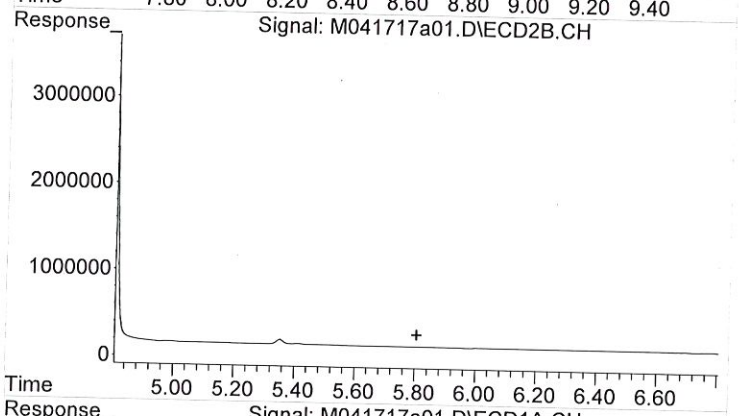
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 5.343 min
Response: 0
Conc: N.D.



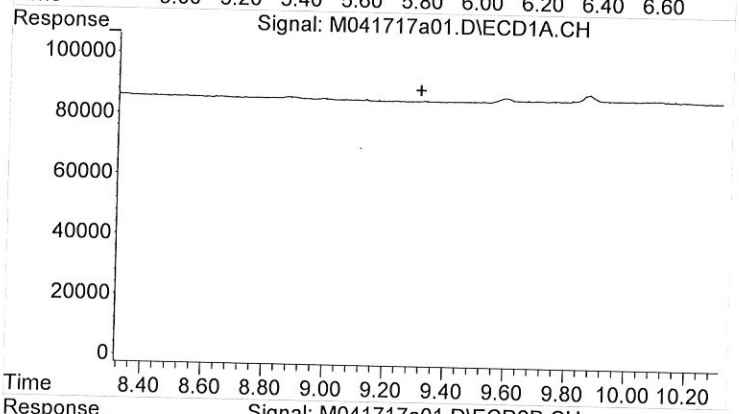
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 8.659 min
Response: 0
Conc: N.D.



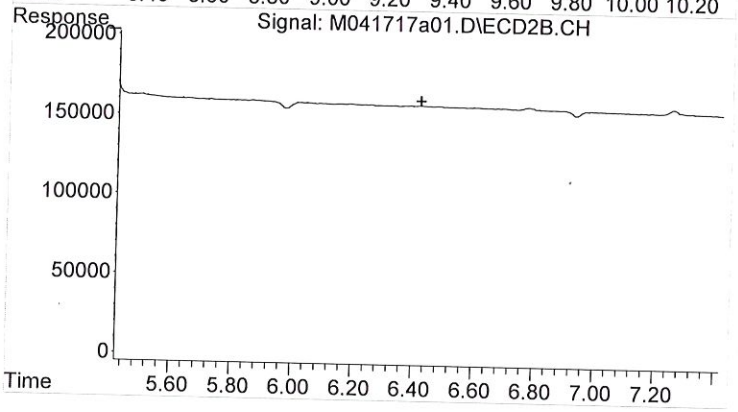
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 5.807 min
Response: 0
Conc: N.D.



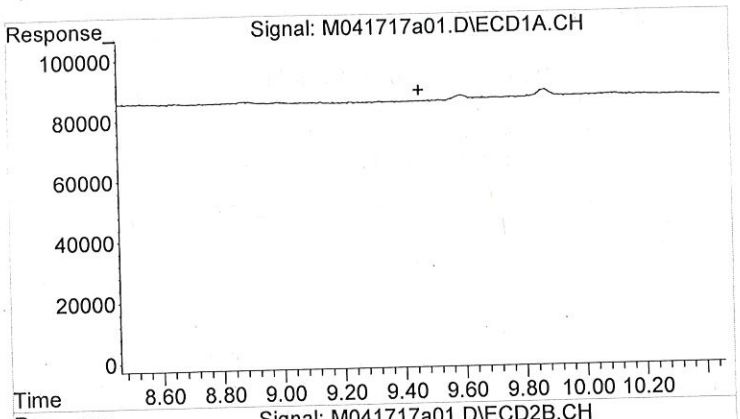
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 9.314 min
Response: 0
Conc: N.D.



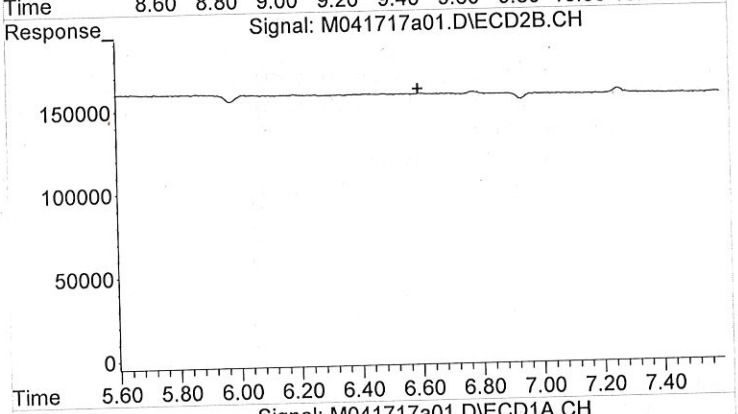
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 6.421 min
Response: 0
Conc: N.D.



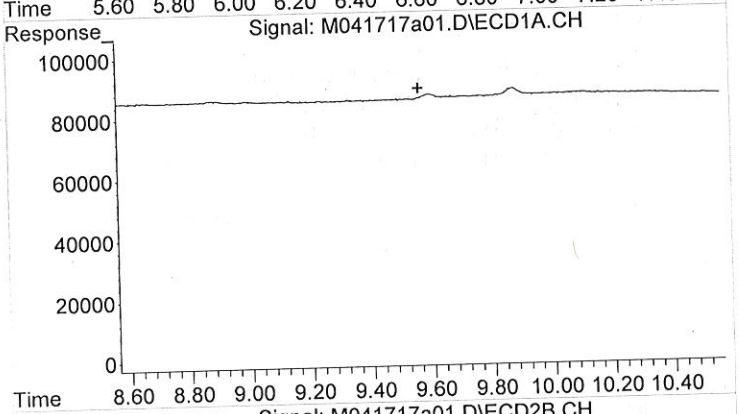
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 9.457 min
Response: 0
Conc: N.D.



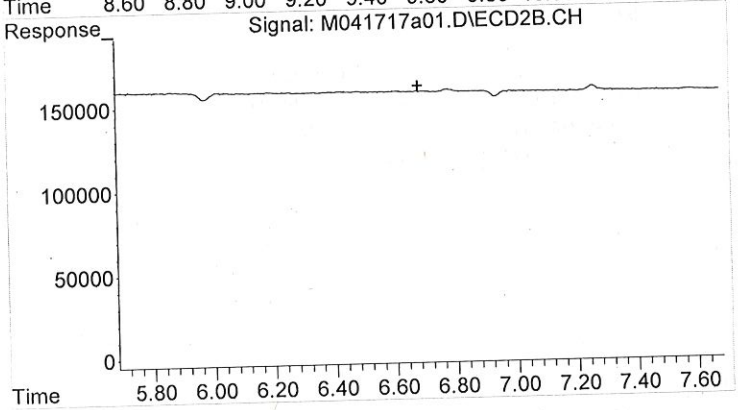
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 6.596 min
Response: 0
Conc: N.D.



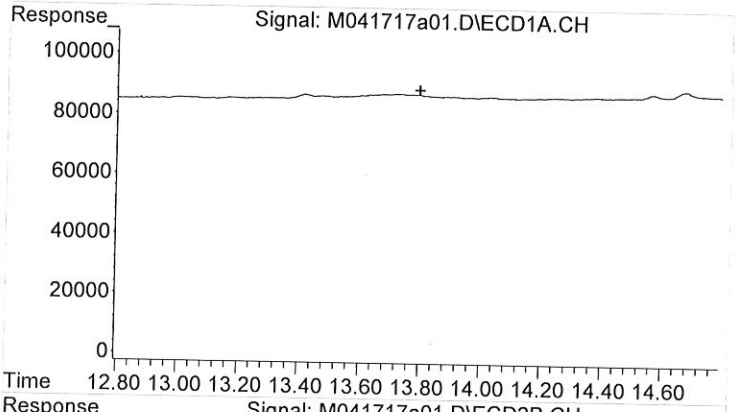
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 9.560 min
Response: 0
Conc: N.D.



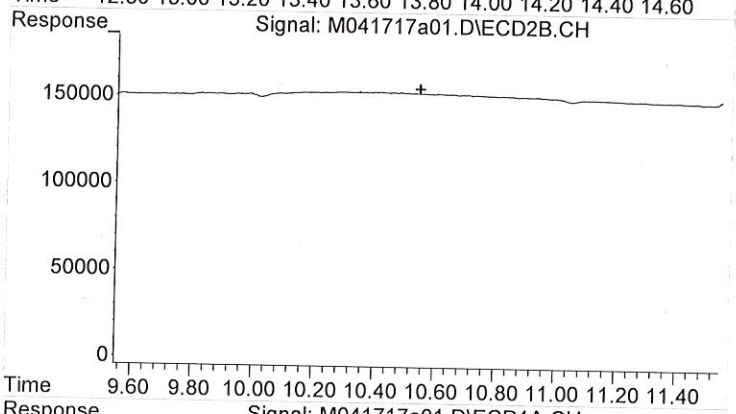
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 6.680 min
Response: 0
Conc: N.D.



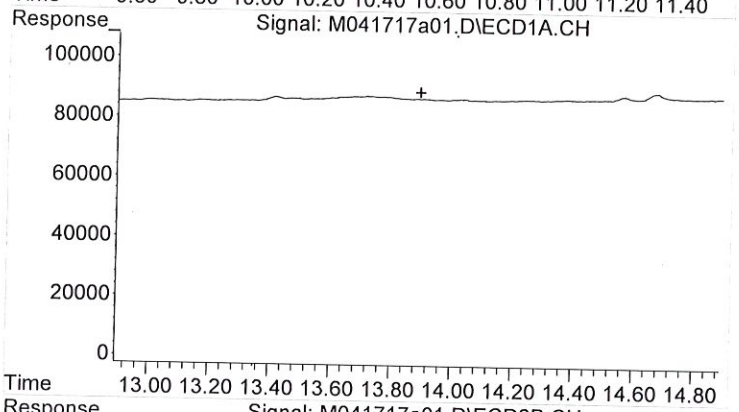
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 13.794 min
Response: 0
Conc: N.D.



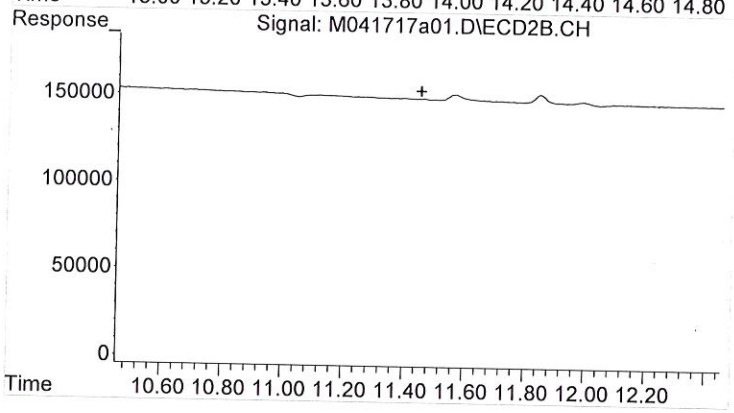
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 10.548 min
Response: 0
Conc: N.D.



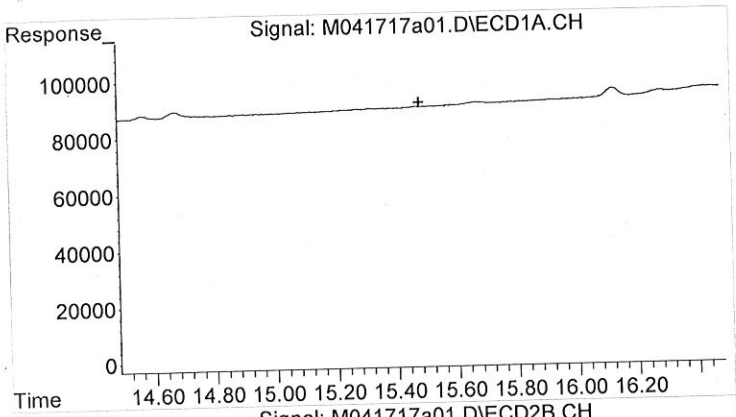
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 13.893 min
Response: 0
Conc: N.D.



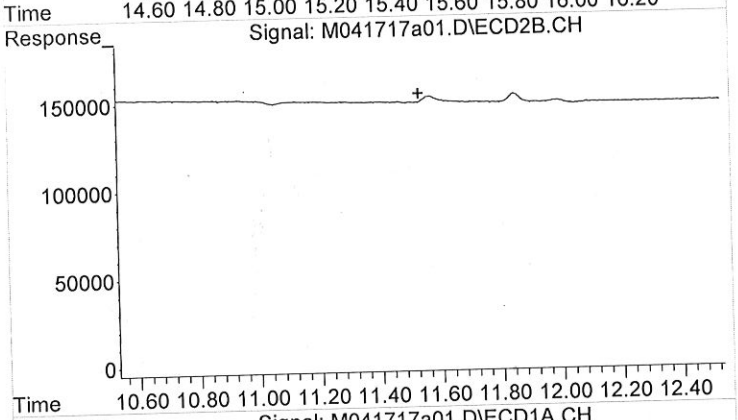
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 11.454 min
Response: 0
Conc: N.D.



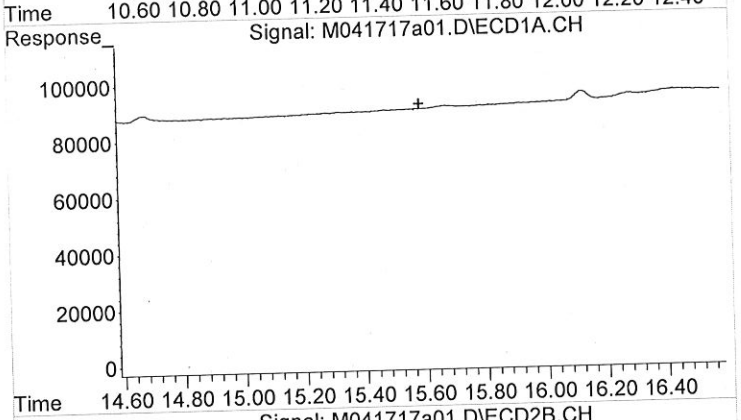
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 15.480 min
Response: 0
Conc: N.D.



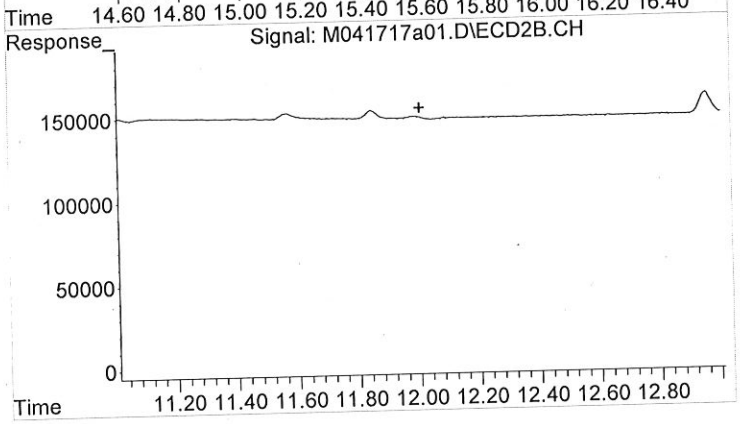
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 11.531 min
Response: 0
Conc: N.D.



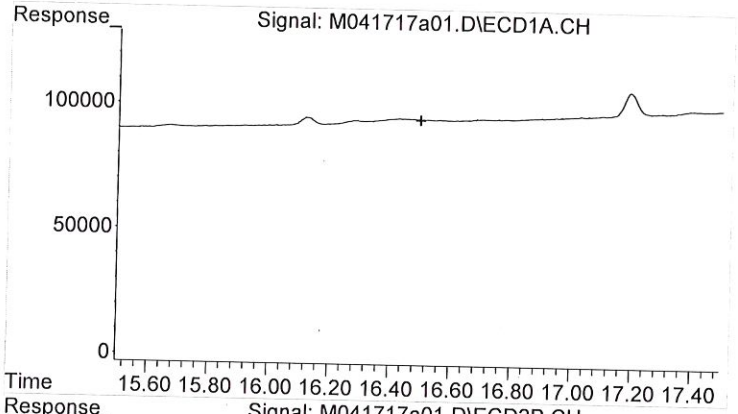
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 15.584 min
Response: 0
Conc: N.D.



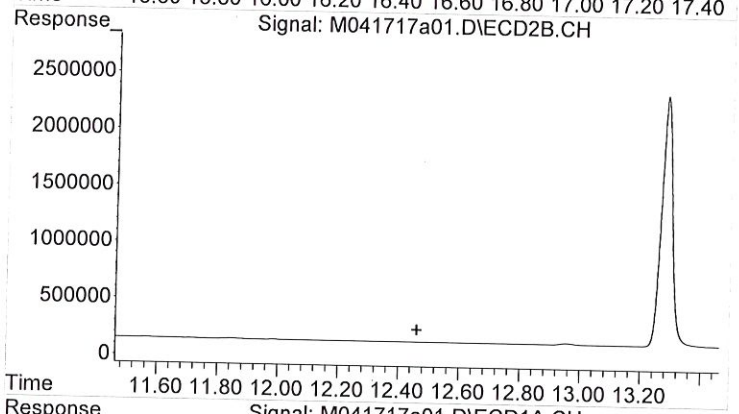
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 12.008 min
Response: 0
Conc: N.D.



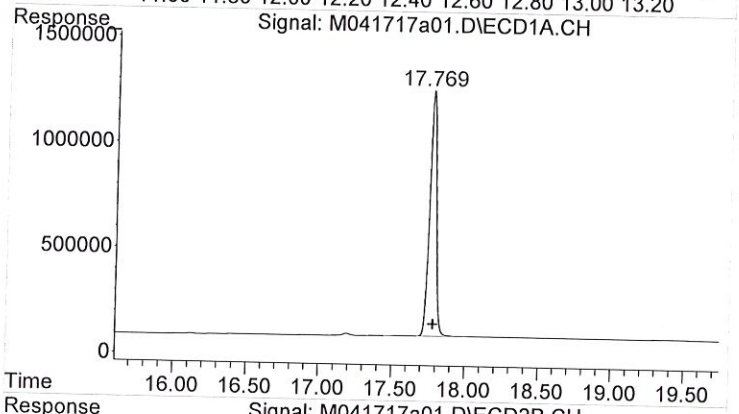
#11 1260-5

R.T.: 0.000 min
Exp R.T. : 16.497 min
Response: 0
Conc: N.D.



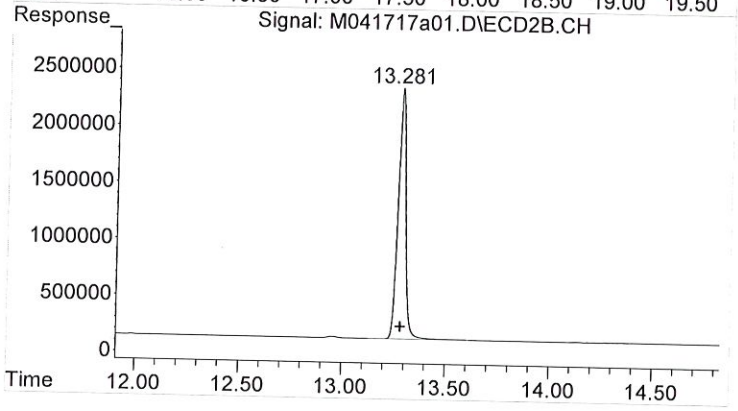
#11 1260-5

R.T.: 0.000 min
Exp R.T. : 12.463 min
Response: 0
Conc: N.D.



#12 dcb

R.T.: 17.769 min
Delta R.T.: -0.016 min
Response: 1162636
Conc: 78.76 pg/uL



#12 dcb

R.T.: 13.282 min
Delta R.T.: -0.002 min
Response: 2212865
Conc: 92.71 pg/uL

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\
Data File : M041717a01.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Apr 2017 15:45 pm
Operator : DWOOD
Sample : 87PCB102416C
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 1 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 14:02:34 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32
Signal #2 Phase: CLPest2
Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	6.981	4.799	2251744	4239597	84.991	102.944
12) S2 dcb	17.769	13.282	1162636	2212865	78.758	92.712
Target Compounds						
2) L1 1016 -1	0.000	5.353	0	~~50837~~ m	N.D.	58.074 #
3) L1 1016-2	0.000	0.000	0	0	N.D.	N.D.
4) L1 1016-3	0.000	0.000	0	0	N.D.	N.D.
5) L1 1016-4	0.000	0.000	0	0	N.D.	N.D.
6) L1 1016-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1016 -1			0	50837	N.D.	58.074
Average 1016 -1					0.000	58.074
7) L2 1260-1	0.000	0.000	0	0	N.D.	N.D.
8) L2 1260-2	0.000	0.000	0	0 m	N.D.	N.D.
9) L2 1260-3	0.000	11.567	0	~~3567~~	N.D.	5.213 #
10) L2 1260-4	0.000	0.000	0	0	N.D.	N.D.
11) L2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	3567	N.D.	5.213
Average 1260-1					0.000	5.213

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

m
4/24/17

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\
Data File : M041717a15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Apr 2017 9:30 pm
Operator : DWOOD
Sample : 87PCB102416C
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 1 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 15:00:37 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32
Signal #2 Phase: CLPest2
Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	6.980	4.798	2348890	4076266	88.679	98.944
12) S2 dcb	17.763	13.281	1276857	2154904	86.619	90.278
Target Compounds						
2) L1 1016 -1	0.000	0.000	0	0	N.D. d	N.D. d
3) L1 1016-2	0.000	0.000	0	0	N.D.	N.D.
4) L1 1016-3	0.000	0.000	0	0	N.D.	N.D.
5) L1 1016-4	0.000	0.000	0	0	N.D.	N.D.
6) L1 1016-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1016 -1			0	0	N.D.	N.D.
Average 1016 -1					0.000	0.000
7) L2 1260-1	0.000	0.000	0	0	N.D.	N.D.
8) L2 1260-2	0.000	0.000	0	0	N.D.	N.D.
9) L2 1260-3	0.000	0.000	0	0	N.D. d	N.D. d
10) L2 1260-4	0.000	0.000	0	0	N.D.	N.D.
11) L2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	0	N.D.	N.D.
Average 1260-1					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

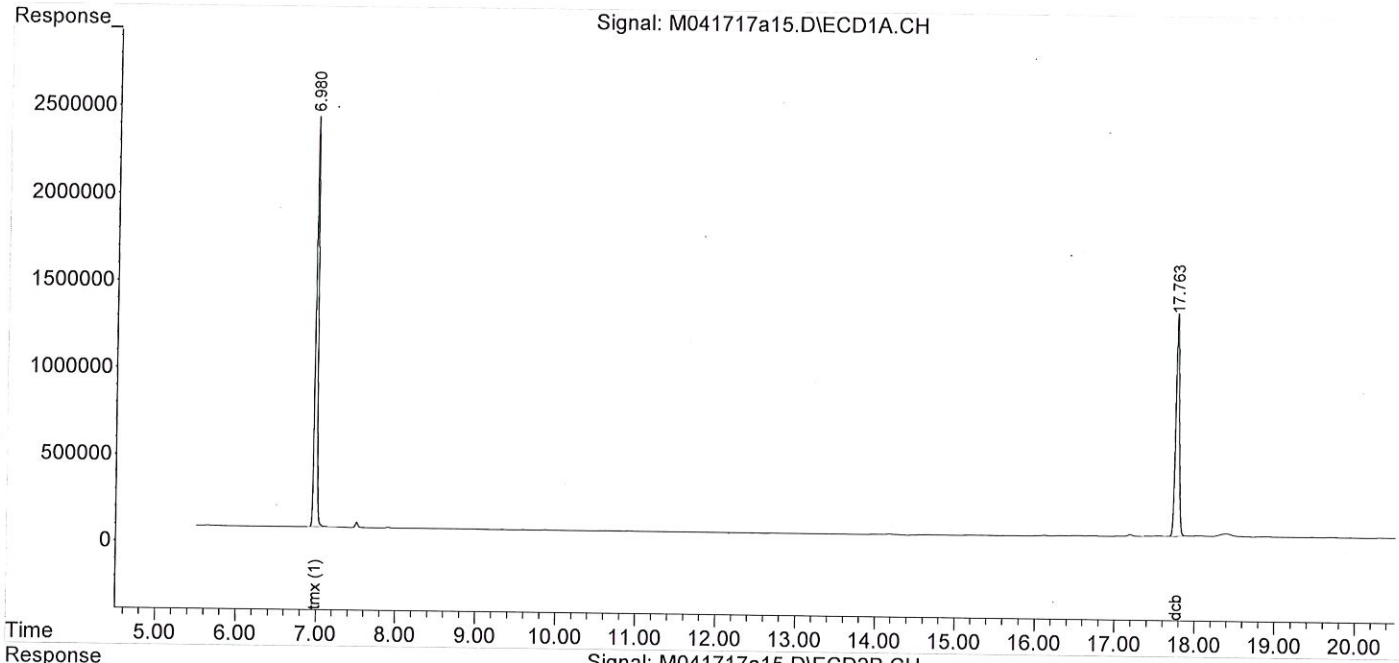
MW
4/24/17

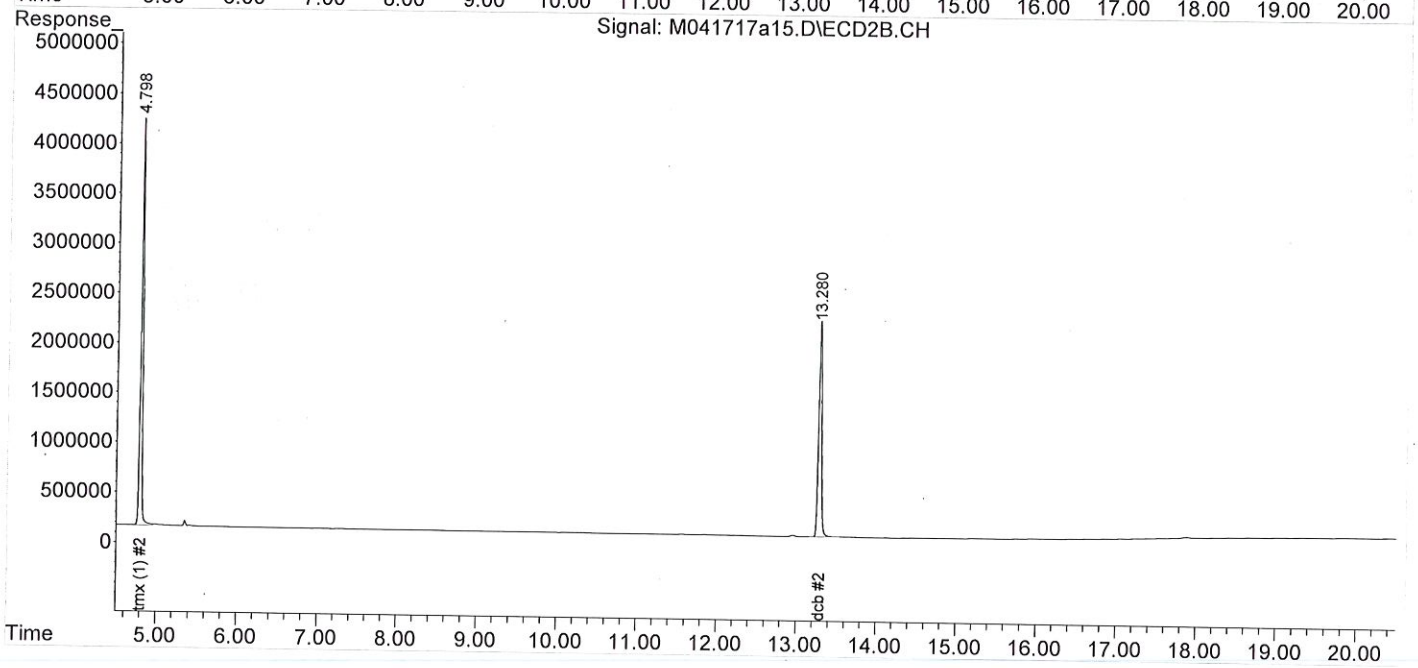
Quantitation Report (QT Reviewed)

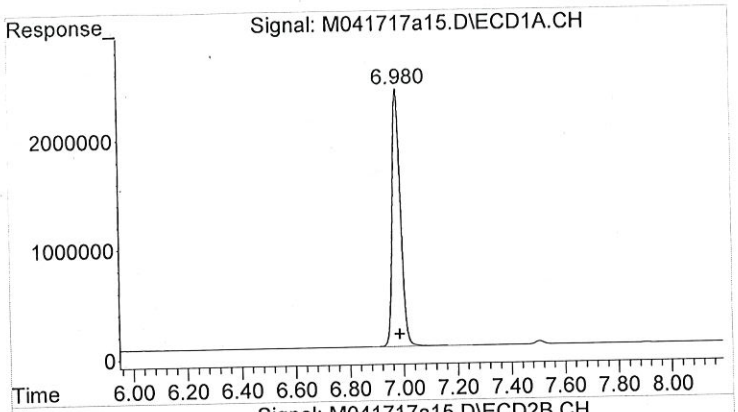
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\
Data File : M041717a15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Apr 2017 9:30 pm
Operator : DWOOD
Sample : 87PCB102416C
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 1 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 15:00:37 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32
Signal #2 Phase: CLPest2
Signal #2 Info : .32

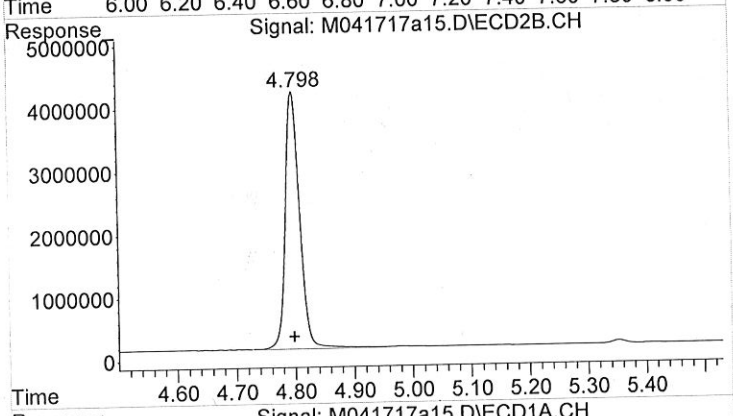






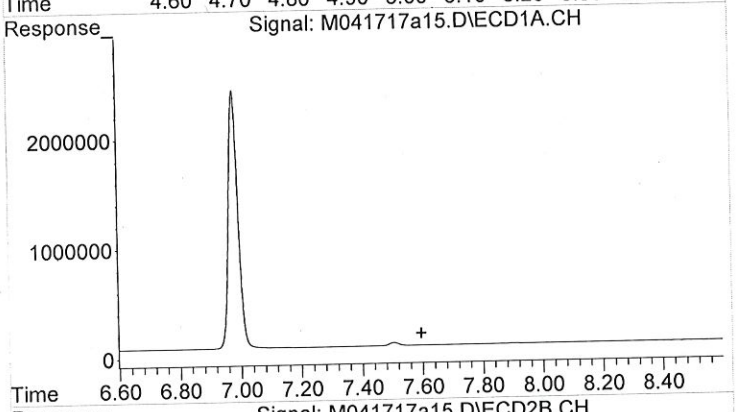
#1 tmx (1)

R.T.: 6.980 min
Delta R.T.: -0.006 min
Response: 2348890
Conc: 88.68 pg/uL



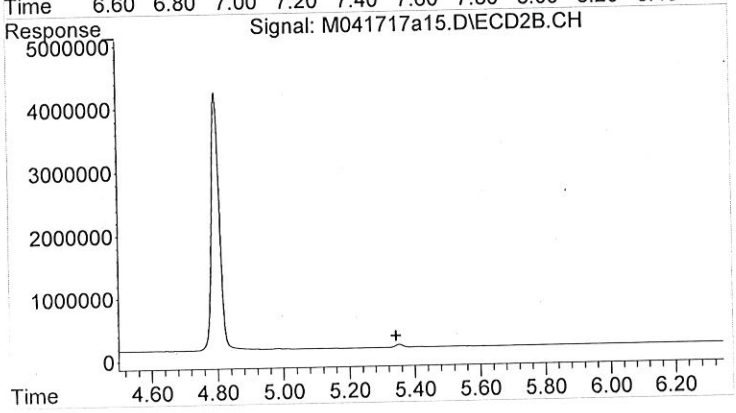
#1 tmx (1)

R.T.: 4.798 min
Delta R.T.: 0.000 min
Response: 4076266
Conc: 98.94 pg/uL



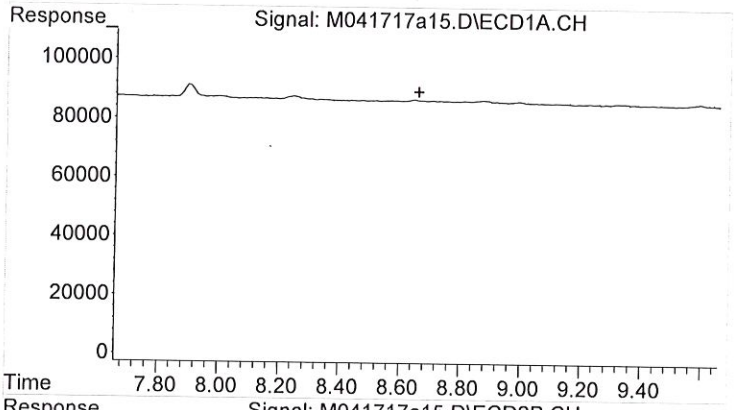
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 7.596 min
Response: 0
Conc: N.D.



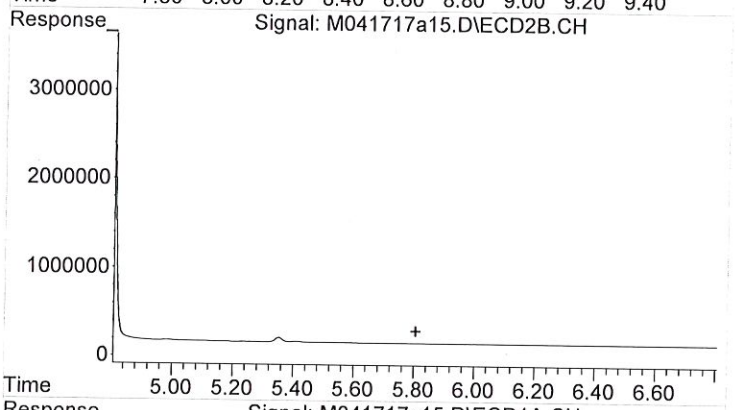
#2 1016 -1

R.T.: 0.000 min
Exp R.T. : 5.343 min
Response: 0
Conc: N.D.



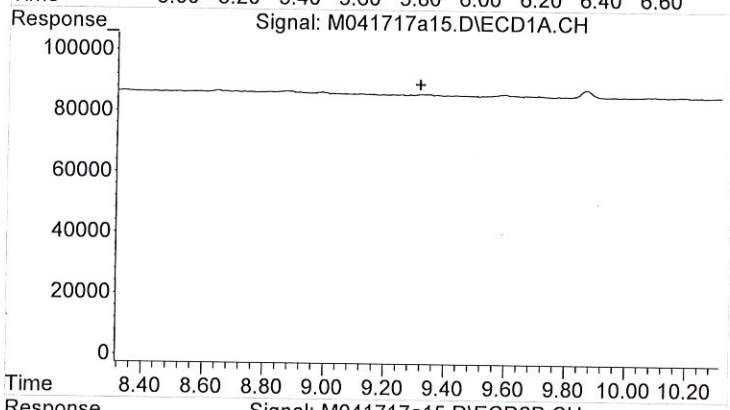
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 8.659 min
Response: 0
Conc: N.D.



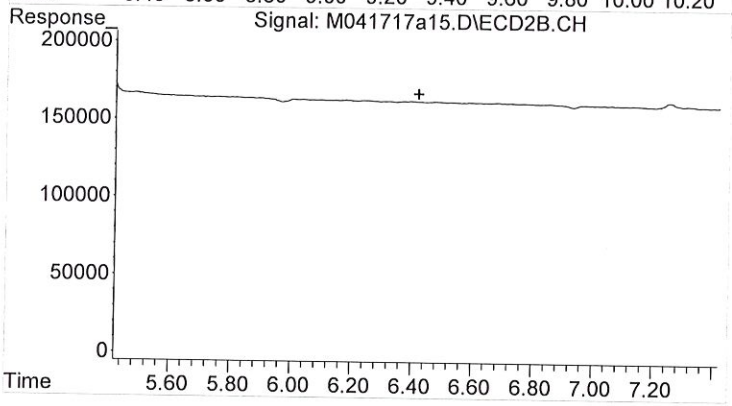
#3 1016-2

R.T.: 0.000 min
Exp R.T. : 5.807 min
Response: 0
Conc: N.D.



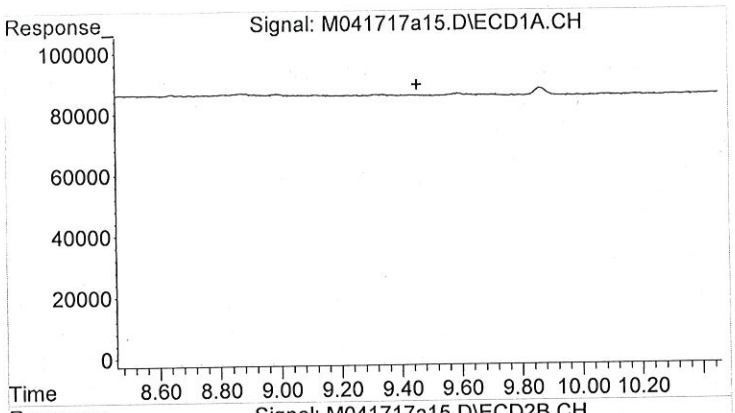
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 9.314 min
Response: 0
Conc: N.D.



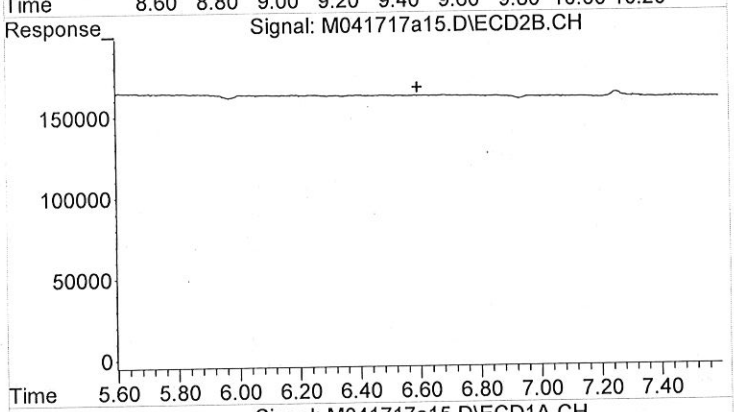
#4 1016-3

R.T.: 0.000 min
Exp R.T. : 6.421 min
Response: 0
Conc: N.D.



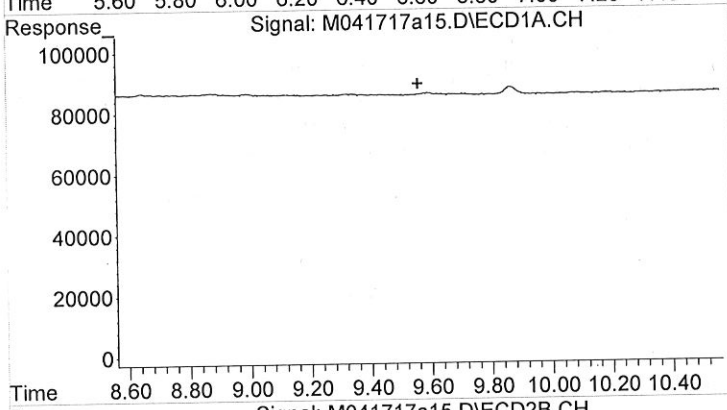
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 9.457 min
Response: 0
Conc: N.D.



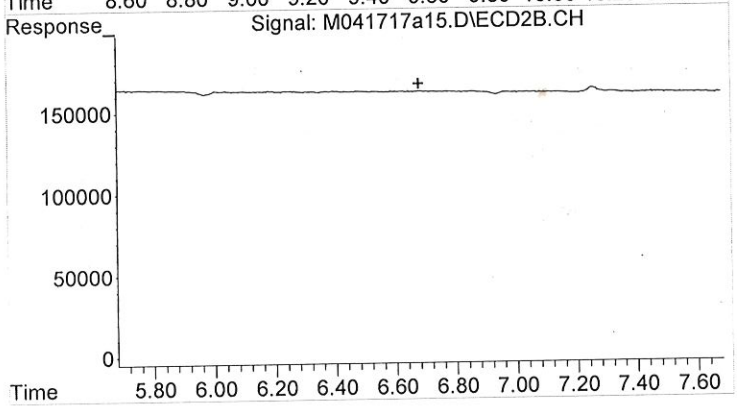
#5 1016-4

R.T.: 0.000 min
Exp R.T. : 6.596 min
Response: 0
Conc: N.D.



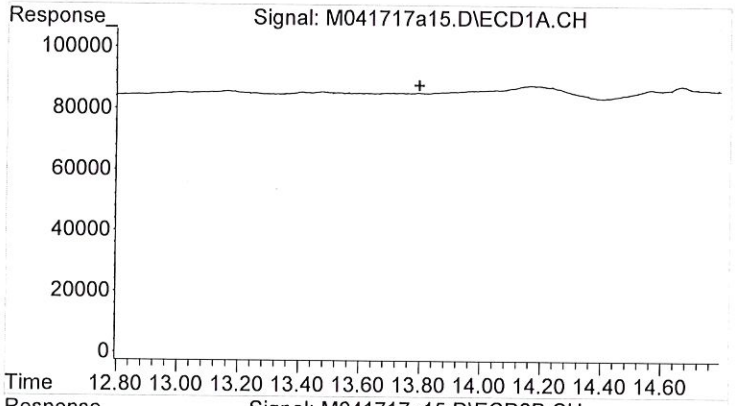
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 9.560 min
Response: 0
Conc: N.D.



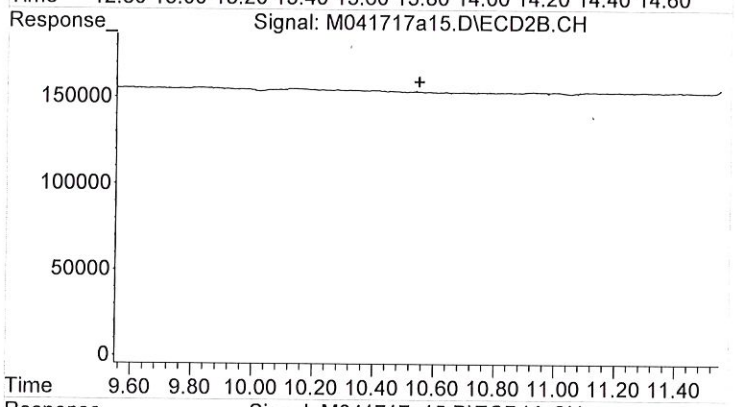
#6 1016-5

R.T.: 0.000 min
Exp R.T. : 6.680 min
Response: 0
Conc: N.D.



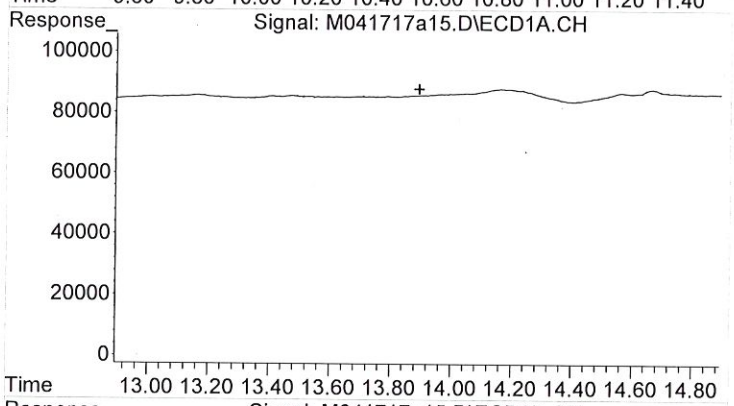
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 13.794 min
Response: 0
Conc: N.D.



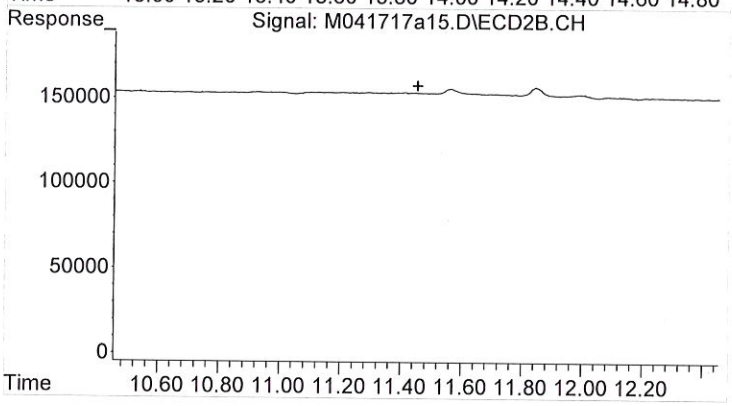
#7 1260-1

R.T.: 0.000 min
Exp R.T. : 10.548 min
Response: 0
Conc: N.D.



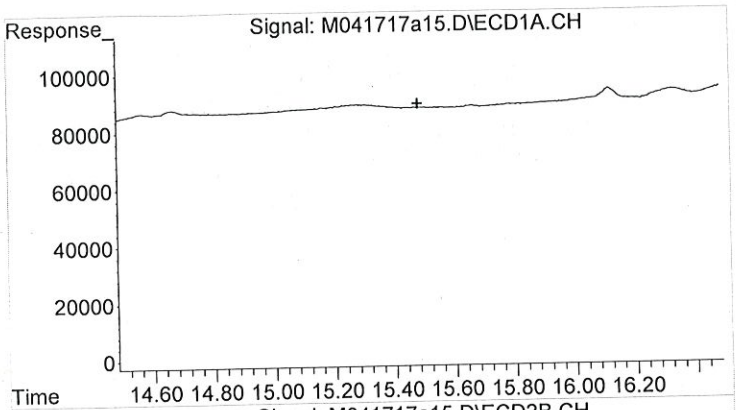
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 13.893 min
Response: 0
Conc: N.D.



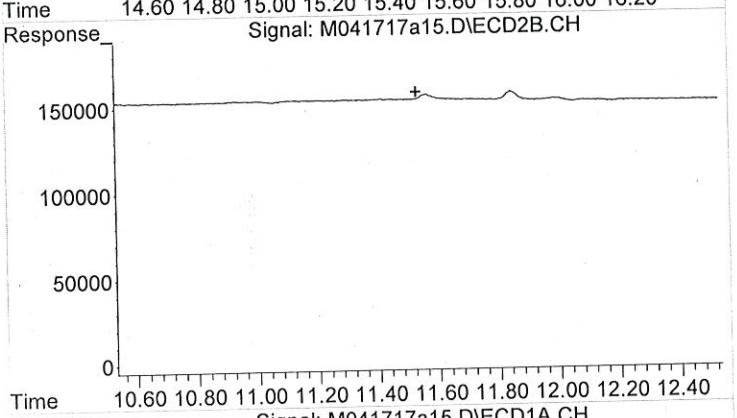
#8 1260-2

R.T.: 0.000 min
Exp R.T. : 11.454 min
Response: 0
Conc: N.D.



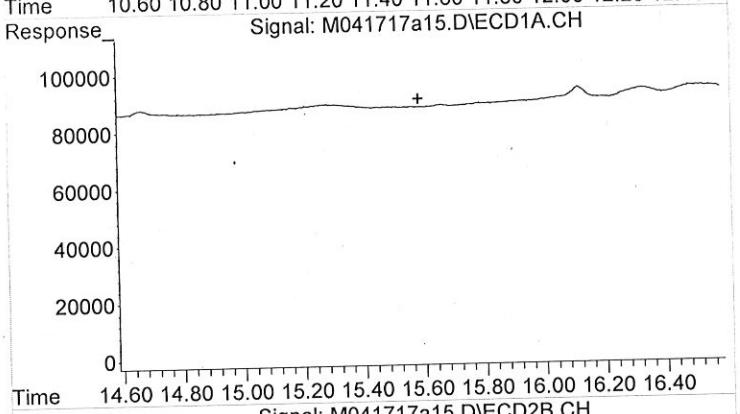
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 15.480 min
Response: 0
Conc: N.D.



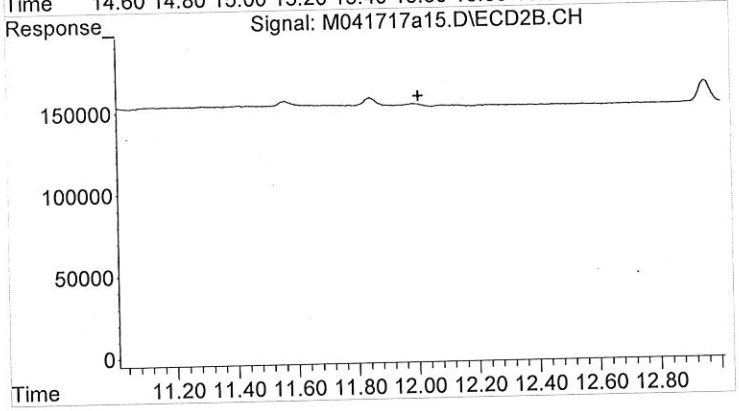
#9 1260-3

R.T.: 0.000 min
Exp R.T. : 11.531 min
Response: 0
Conc: N.D.



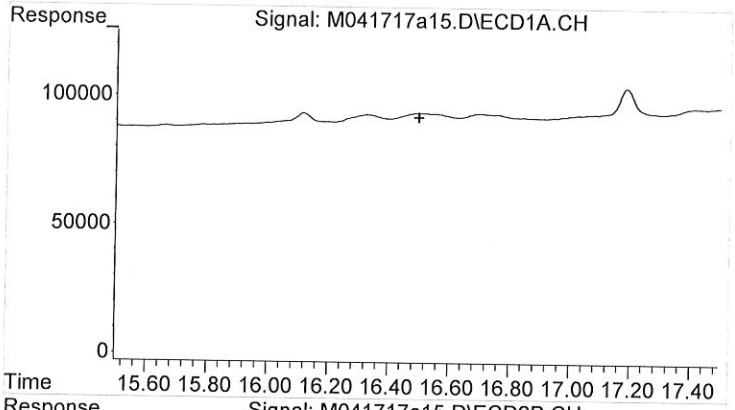
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 15.584 min
Response: 0
Conc: N.D.



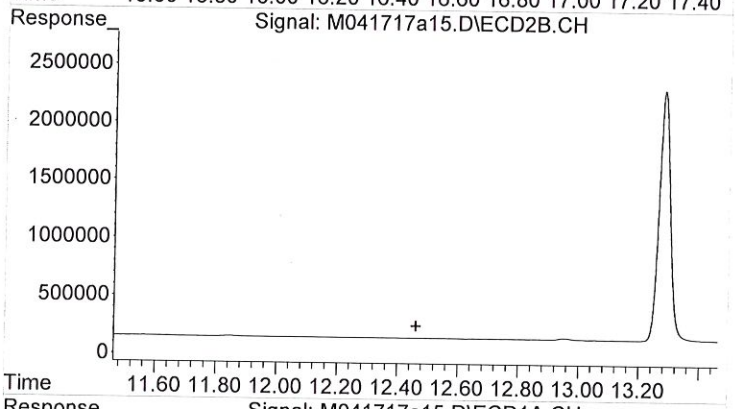
#10 1260-4

R.T.: 0.000 min
Exp R.T. : 12.008 min
Response: 0
Conc: N.D.



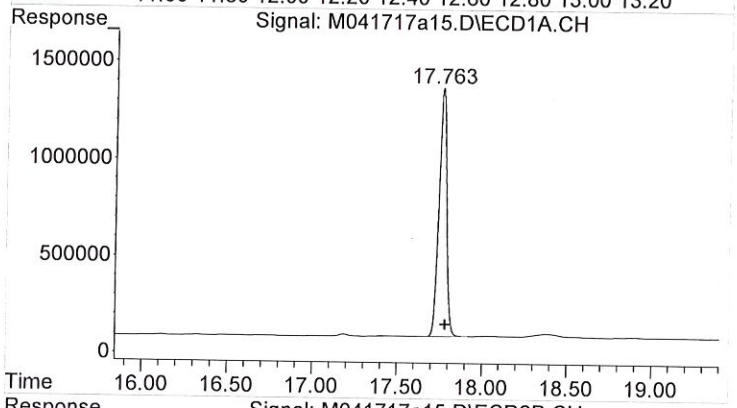
#11 1260-5

R.T.: 0.000 min
Exp R.T. : 16.497 min
Response: 0
Conc: N.D.



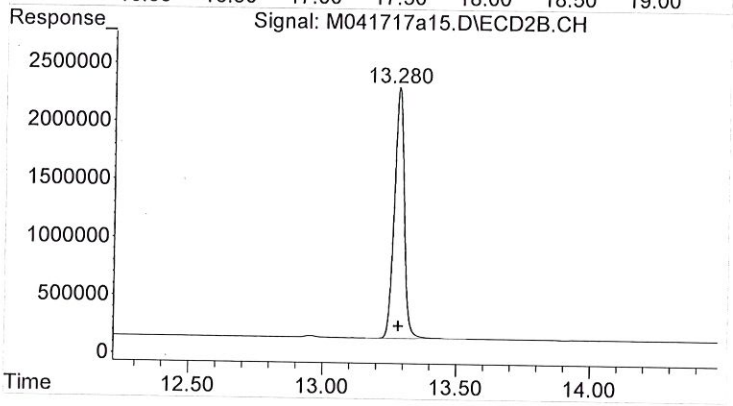
#11 1260-5

R.T.: 0.000 min
Exp R.T. : 12.463 min
Response: 0
Conc: N.D.



#12 dcb

R.T.: 17.763 min
Delta R.T.: -0.022 min
Response: 1276857
Conc: 86.62 pg/uL



#12 dcb

R.T.: 13.281 min
Delta R.T.: -0.003 min
Response: 2154904
Conc: 90.28 pg/uL

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\
Data File : M041717a15.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Apr 2017 21:30 pm
Operator : DWOOD
Sample : 87PCB102416C
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 1 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 14:04:30 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32
Signal #2 Phase: CLPest2
Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	6.980	4.798	2348890	4076266	88.679	98.944
12) S2 dcb	17.763	13.281	1276857	2154904	86.619	90.278
Target Compounds						
2) L1 1016 -1	0.000	5.352	0	49450	N.D.	56.343 #
3) L1 1016-2	0.000	0.000	0	0	N.D.	N.D.
4) L1 1016-3	0.000	0.000	0	0	N.D.	N.D.
5) L1 1016-4	0.000	0.000	0	0	N.D.	N.D.
6) L1 1016-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1016 -1			0	49450	N.D.	56.343
Average 1016 -1					0.000	56.343
7) L2 1260-1	0.000	0.000	0	0	N.D.	N.D.
8) L2 1260-2	0.000	0.000	0	0	N.D.	N.D.
9) L2 1260-3	0.000	11.563	0	3052	N.D.	4.473 #
10) L2 1260-4	0.000	0.000	0	0	N.D.	N.D.
11) L2 1260-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1260-1			0	3052	N.D.	4.473
Average 1260-1					0.000	4.473

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

4/24/17

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041817PCBDW\
Data File : M041817a01.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Apr 2017 13:22 pm
Operator : DWOOD
Sample : 87PCB102416C
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 1 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Apr 24 16:01:29 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 24 15:30:48 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32
Signal #2 Phase: CLPest2
Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	0.000	0.000	0	0	N.D. d	N.D. d
7) S2 dcb	0.000	0.000	0	0	N.D.	N.D.
Target Compounds						
2) L1 1254 -1	0.000	0.000	0	0	N.D.	N.D.
3) L1 1254-2	0.000	0.000	0	0	N.D.	N.D.
4) L1 1254-3	0.000	0.000	0	0	N.D.	N.D.
5) L1 1254-4	0.000	0.000	0	0	N.D.	N.D.
6) L1 1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1254 -1			0	0	N.D.	N.D.
Average 1254 -1					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

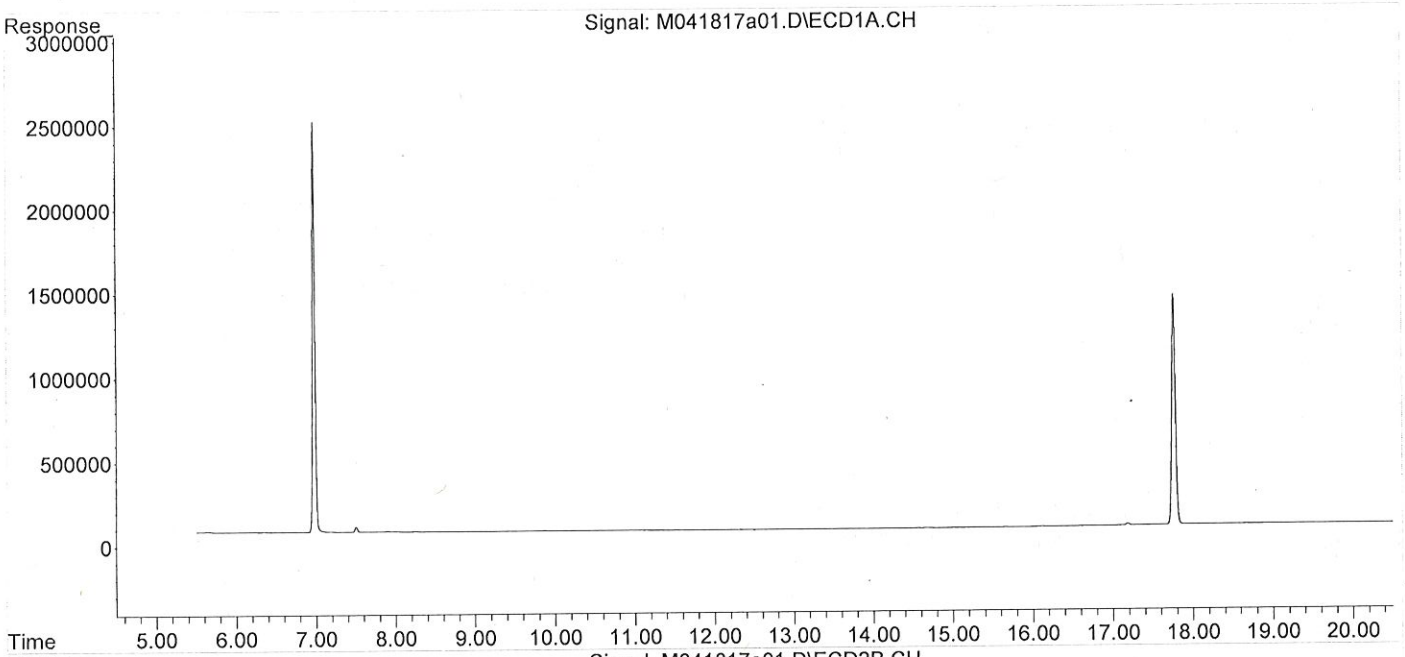
lm
4/25/17

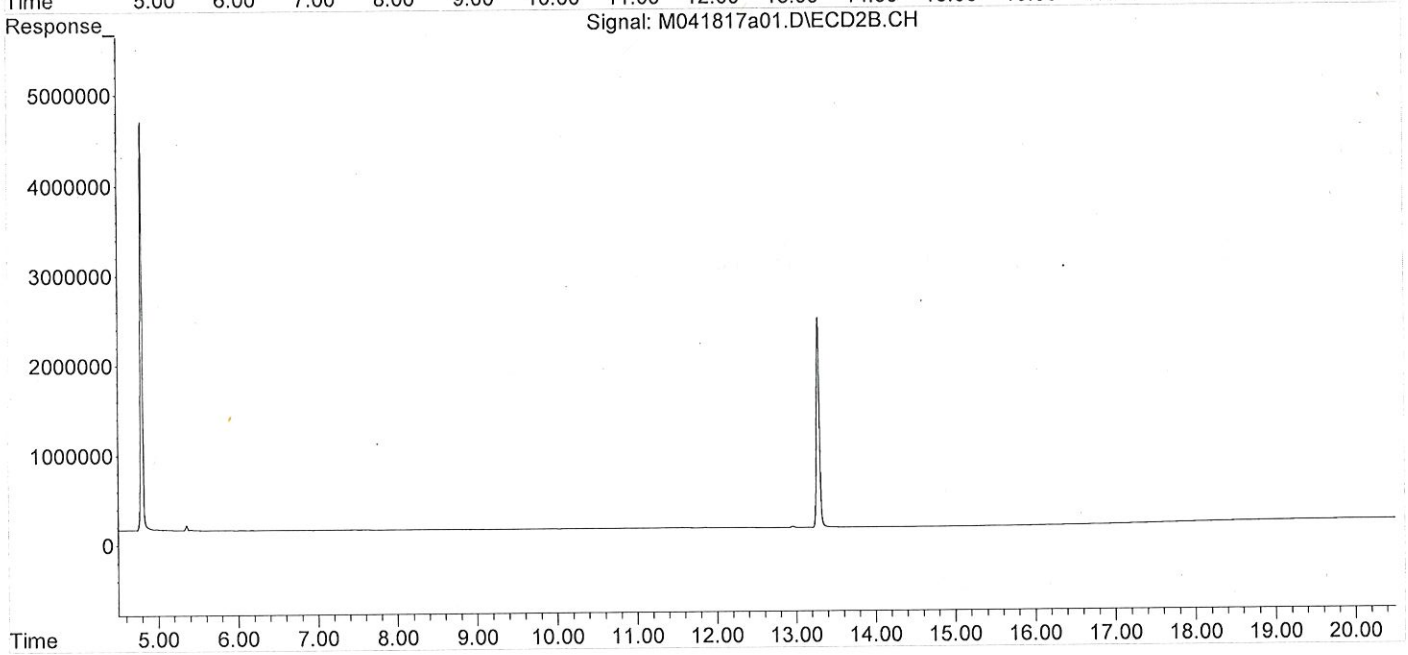
Quantitation Report (QT Reviewed)

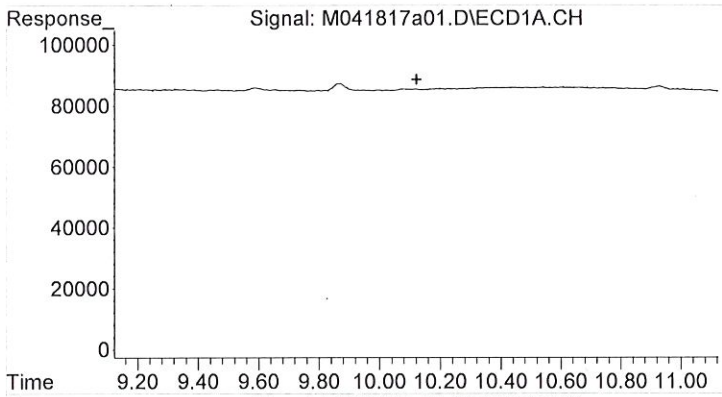
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041817PCBDW\
Data File : M041817a01.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Apr 2017 13:22 pm
Operator : DWOOD
Sample : 87PCB102416C
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 1 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Apr 24 16:01:29 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 24 15:30:48 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

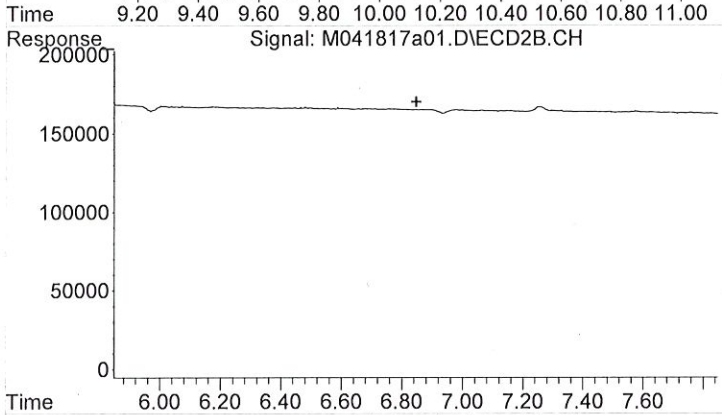






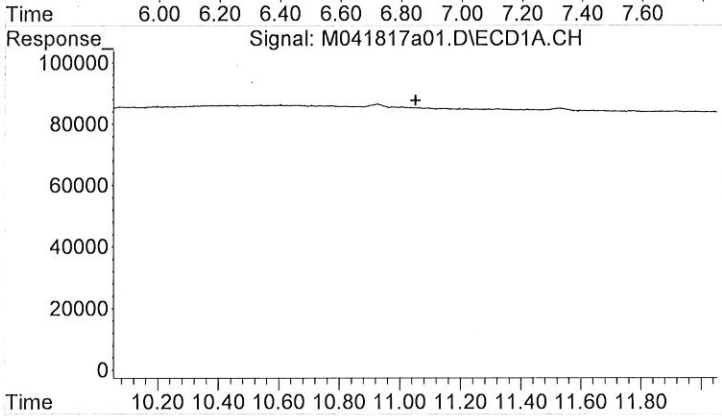
#2 1254 -1

R.T.: 0.000 min
Exp R.T. : 10.122 min
Response: 0
Conc: N.D.



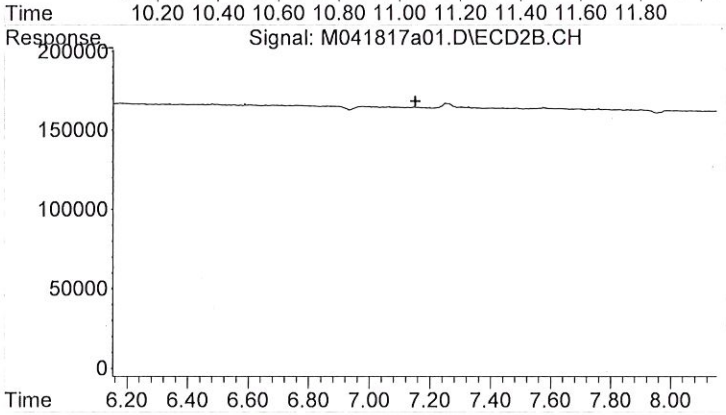
#2 1254 -1

R.T.: 0.000 min
Exp R.T. : 6.848 min
Response: 0
Conc: N.D.



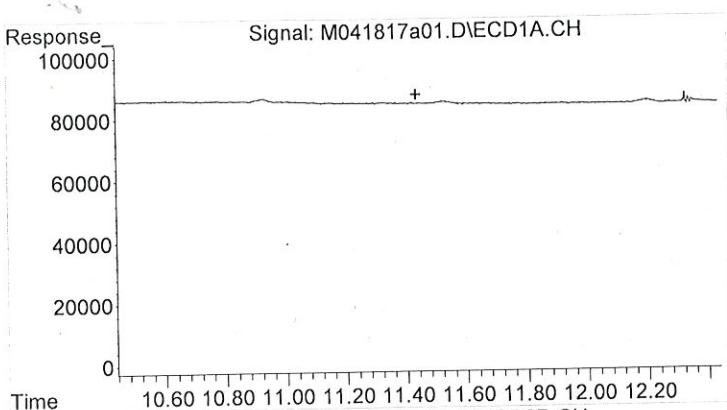
#3 1254-2

R.T.: 0.000 min
Exp R.T. : 11.053 min
Response: 0
Conc: N.D.



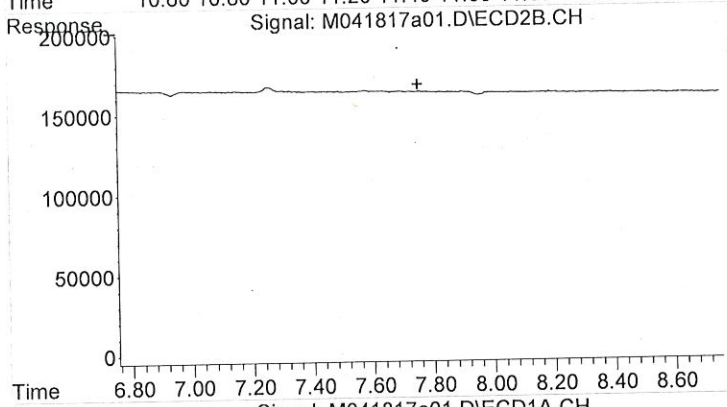
#3 1254-2

R.T.: 0.000 min
Exp R.T. : 7.152 min
Response: 0
Conc: N.D.



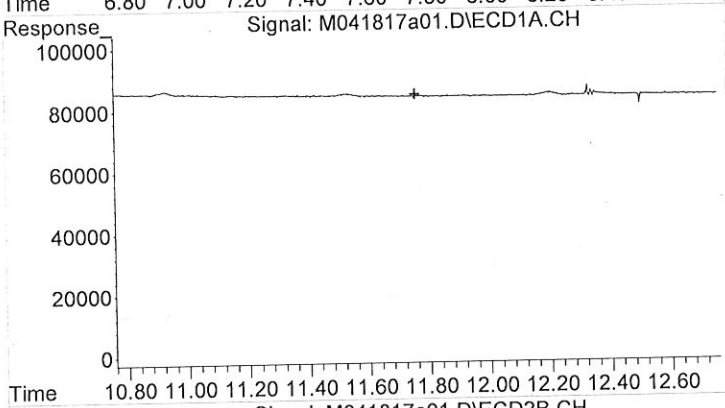
#4 1254-3

R.T.: 0.000 min
Exp R.T. : 11.437 min
Response: 0
Conc: N.D.



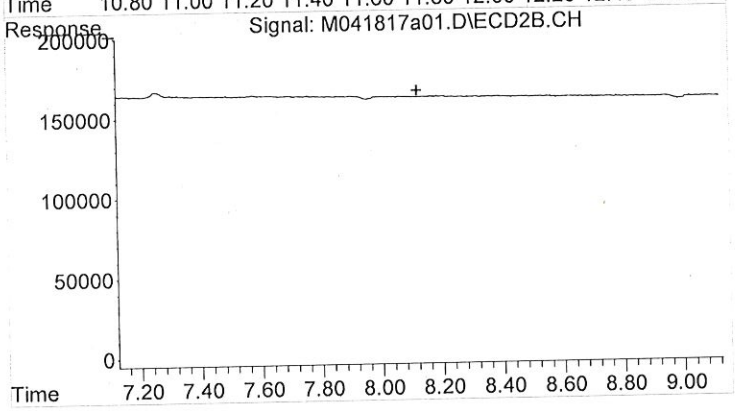
#4 1254-3

R.T.: 0.000 min
Exp R.T. : 7.754 min
Response: 0
Conc: N.D.



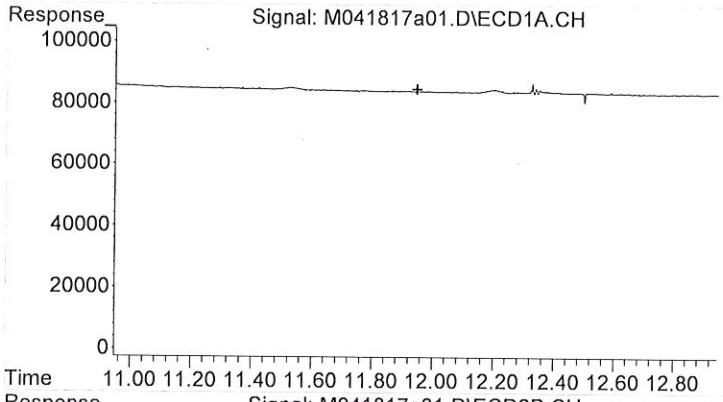
#5 1254-4

R.T.: 0.000 min
Exp R.T. : 11.757 min
Response: 0
Conc: N.D.



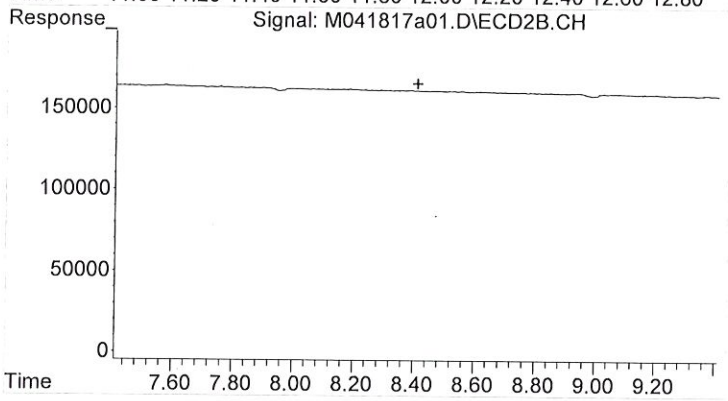
#5 1254-4

R.T.: 0.000 min
Exp R.T. : 8.123 min
Response: 0
Conc: N.D.



#6 1254-5

R.T.: 0.000 min
Exp R.T. : 11.946 min
Response: 0
Conc: N.D.



#6 1254-5

R.T.: 0.000 min
Exp R.T. : 8.411 min
Response: 0
Conc: N.D.

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041817PCBDW\
Data File : M041817a01.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Apr 2017 13:22 pm
Operator : DWOOD
Sample : 87PCB102416C
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 1 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Apr 24 15:49:39 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 24 15:30:48 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32
Signal #2 Phase: CLPest2
Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	0.000	5.076	0	~~5998~~	N.D.	NoCal
7) S2 dcb	0.000	0.000	0	0	N.D.	N.D.
Target Compounds						
2) L1 1254 -1	0.000	0.000	0	0	N.D.	N.D.
3) L1 1254-2	0.000	0.000	0	0	N.D.	N.D.
4) L1 1254-3	0.000	0.000	0	0	N.D.	N.D.
5) L1 1254-4	0.000	0.000	0	0	N.D.	N.D.
6) L1 1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1254 -1			0	0	N.D.	N.D.
Average 1254 -1					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

4/24/17

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041817PCBDW\
Data File : M041817a06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Apr 2017 15:26 pm
Operator : DWOOD
Sample : 87PCB102416C
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 1 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Apr 24 16:05:16 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 24 15:30:48 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	0.000	0.000	0	0	N.D.	N.D.
7) S2 dcb	0.000	0.000	0	0	N.D. d	N.D. d
Target Compounds						
2) L1 1254 -1	0.000	0.000	0	0	N.D.	N.D.
3) L1 1254-2	0.000	0.000	0	0	N.D.	N.D.
4) L1 1254-3	0.000	0.000	0	0	N.D. d	N.D. d
5) L1 1254-4	0.000	0.000	0	0	N.D.	N.D.
6) L1 1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1254 -1			0	0	N.D.	N.D.
Average 1254 -1					0.000	0.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

mw
4/25/17

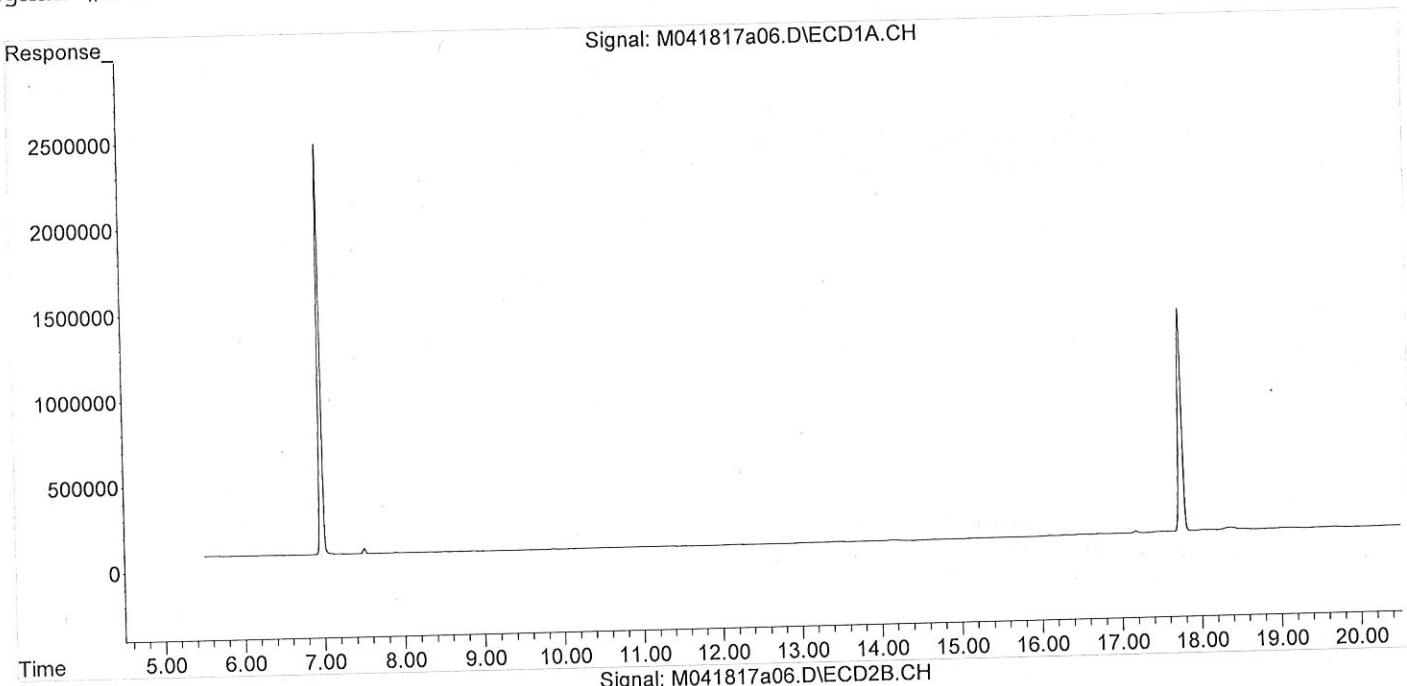
Quantitation Report (QT Reviewed)

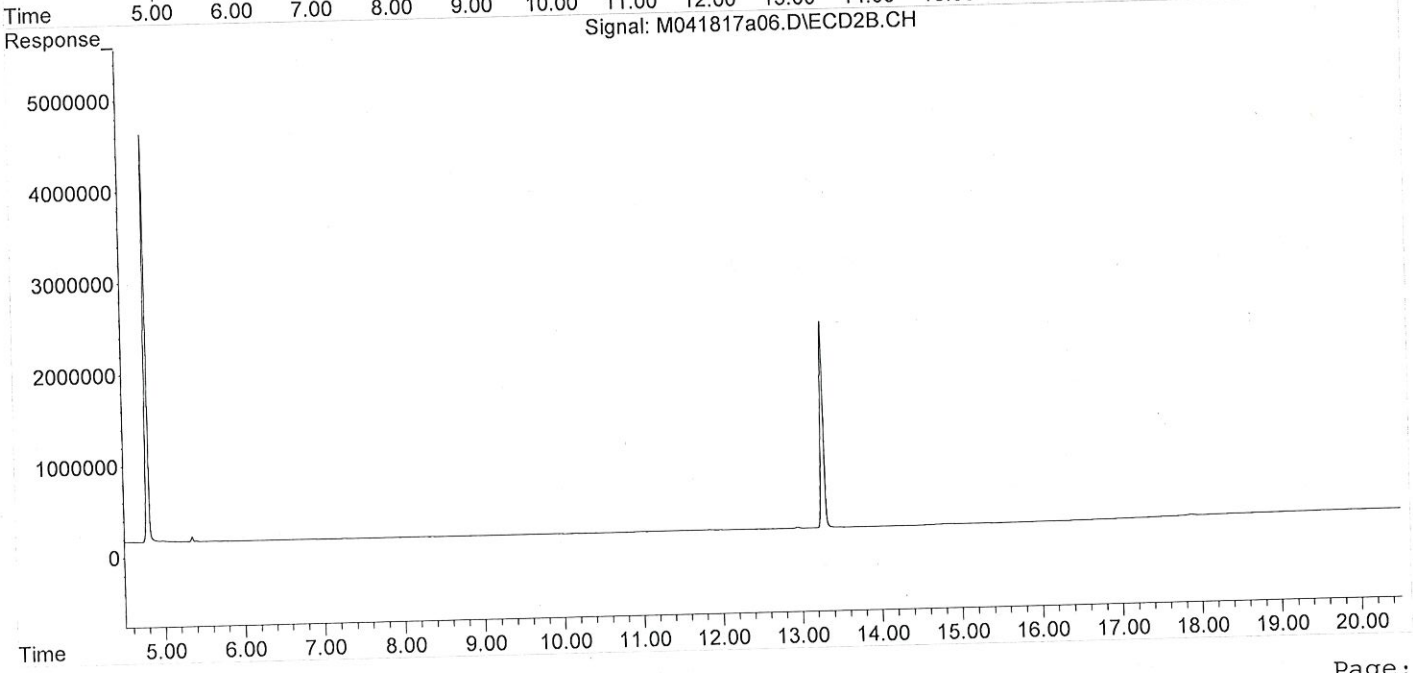
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041817PCBDW\
Data File : M041817a06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Apr 2017 15:26 pm
Operator : DWOOD
Sample : 87PCB102416C
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 1 (Sig #2) Sample Multiplier: 1

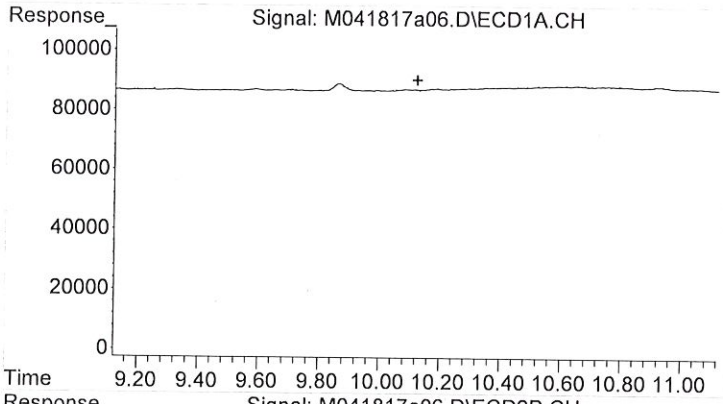
Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Apr 24 16:05:16 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 24 15:30:48 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32

Signal #2 Phase: CLPest2
Signal #2 Info : .32

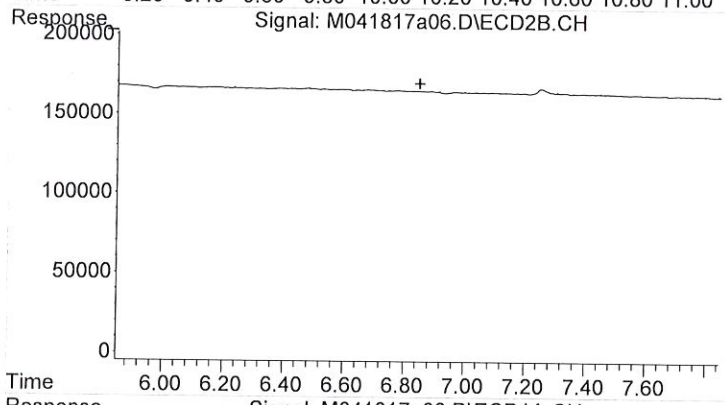






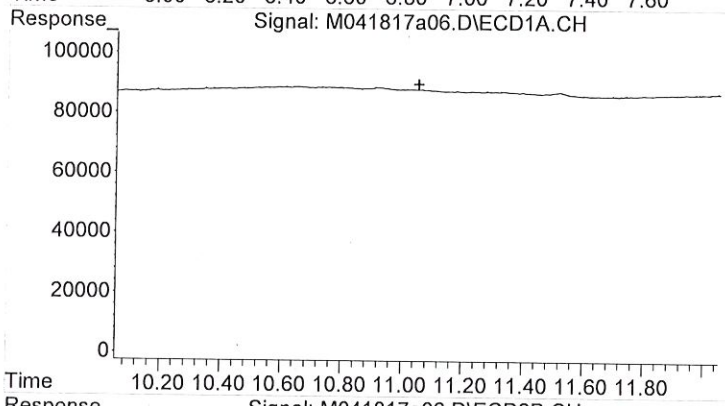
#2 1254 -1

R.T.: 0.000 min
Exp R.T. : 10.122 min
Response: 0
Conc: N.D.



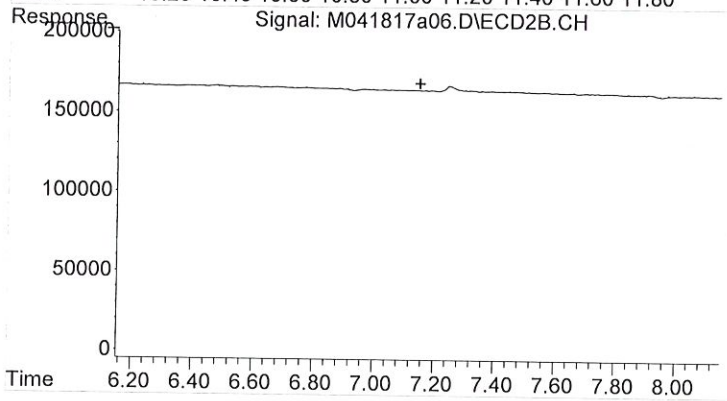
#2 1254 -1

R.T.: 0.000 min
Exp R.T. : 6.848 min
Response: 0
Conc: N.D.



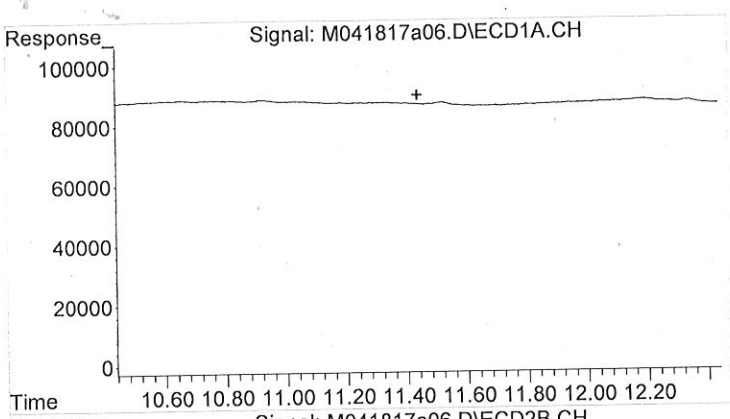
#3 1254-2

R.T.: 0.000 min
Exp R.T. : 11.053 min
Response: 0
Conc: N.D.



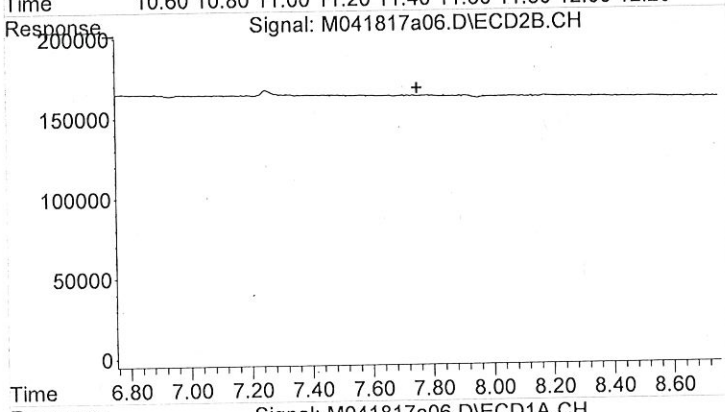
#3 1254-2

R.T.: 0.000 min
Exp R.T. : 7.152 min
Response: 0
Conc: N.D.



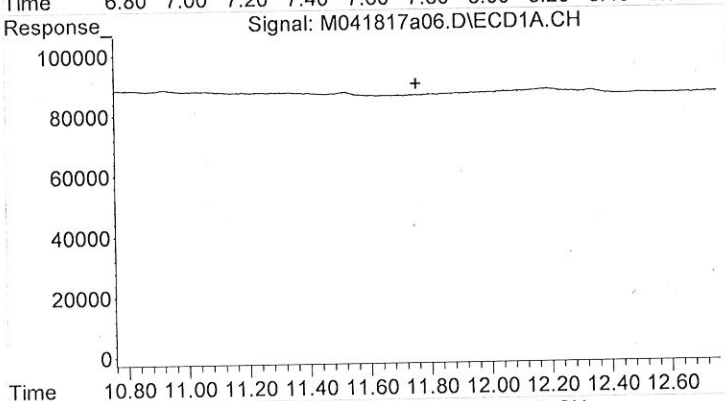
#4 1254-3

R.T.: 0.000 min
Exp R.T. : 11.437 min
Response: 0
Conc: N.D.



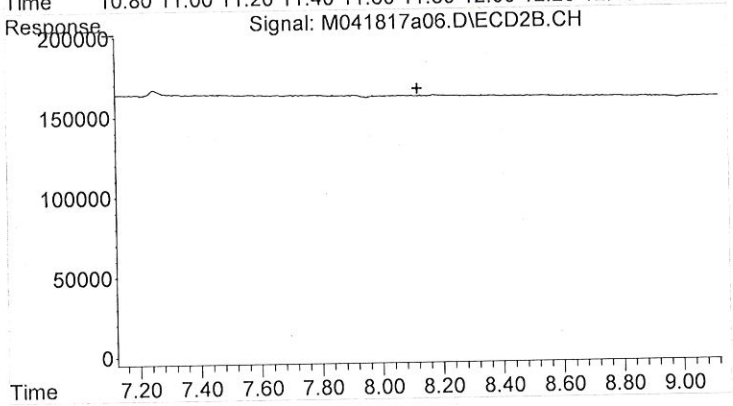
#4 1254-3

R.T.: 0.000 min
Exp R.T. : 7.754 min
Response: 0
Conc: N.D.



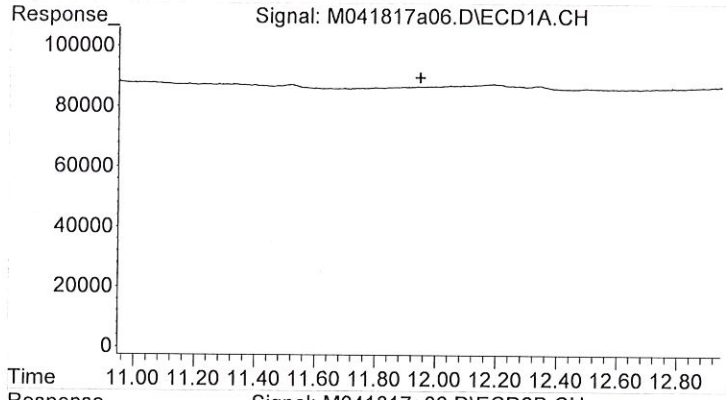
#5 1254-4

R.T.: 0.000 min
Exp R.T. : 11.757 min
Response: 0
Conc: N.D.



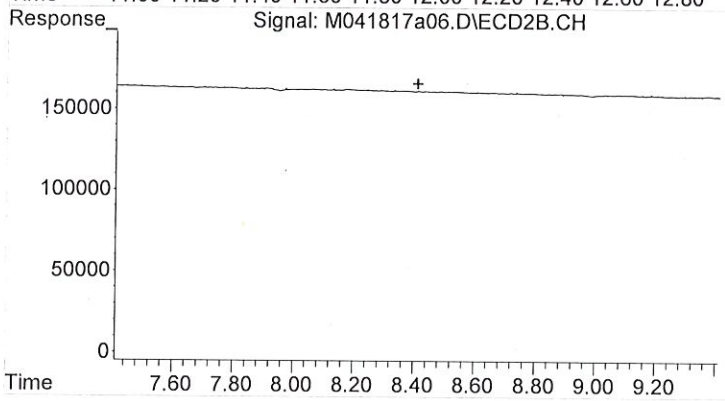
#5 1254-4

R.T.: 0.000 min
Exp R.T. : 8.123 min
Response: 0
Conc: N.D.



#6 1254-5

R.T.: 0.000 min
Exp R.T. : 11.946 min
Response: 0
Conc: N.D.



#6 1254-5

R.T.: 0.000 min
Exp R.T. : 8.411 min
Response: 0
Conc: N.D.

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041817PCBDW\
Data File : M041817a06.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Apr 2017 15:26 pm
Operator : DWOOD
Sample : 87PCB102416C
Misc : Instrument Blank 100pg/ul
ALS Vial : 0 (Sig #1); 1 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Apr 24 15:50:19 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 24 15:30:48 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32
Signal #2 Phase: CLPest2
Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	0.000	0.000	0	0	N.D.	N.D.
7) S2 dcb	18.044	0.000	~~2232~~	0	NoCal	N.D.
Target Compounds						
2) L1 1254 -1	0.000	0.000	0	0	N.D.	N.D.
3) L1 1254-2	0.000	0.000	0	0	N.D.	N.D.
4) L1 1254-3	0.000	7.720	0	~~1795~~	N.D.	2.359 #
5) L1 1254-4	0.000	0.000	0	0	N.D.	N.D.
6) L1 1254-5	0.000	0.000	0	0	N.D.	N.D.
Sum 1254 -1			0	1795	N.D.	2.359
Average 1254 -1					0.000	2.359

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

4/24/17

N/A

- ~~MS/MSD~~
  a. Custom Recovery Summary Report, if available
  b. Quan Report (Quant – Generate Report – Summary)
  c. Graphics (@Cmd Line – Thumbnail)

- LCS/LCSD
    a. Custom Recovery Summary Report, if available
    b. Quan Report (Quant – Generate Report – Summary)
    c. Graphics (@Cmd Line –Thumbnail)

PCB QC Recovery Report

92041717B1
92041717L1
92041717L2

Matrix: 42 - Wipe

Sample ID	Filename	Date/Time Acquired	Initial Extracted Amount (mL)	Final Extract Volume (mL)	Spiking Std Concentration (ng/uL)	Spike Volume (uL)	Total Spike Amount per sample (ng)
92041717B1	M041717a03.D	04/17/2017 16:34	40	10	0	0	0
92041717L1	M041717a04.D	04/17/2017 16:59	40	10	40	100	4000
92041717L2	M041717a05.D	04/17/2017 17:24	40	10	40	100	4000

Data Paths

Reference...: J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\M041717a03.D
LCS or MS...: J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\M041717a04.D
LCSD or MSD.: J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\M041717a05.D

Compound Name	Ref. Amt ug	Spk1 Amt ug	ExpSpk1 Amt ug	Spk1 LCS/MS %Rec	Spk2 Amt ug	ExpSpk2 Amt ug	Spk2 LCSD/MSD %Rec	Recovery Limits %	RPD %	RPD Limit %
1016 Column 1	0	2.49	4.00	62% #	2.43	4.00	61% #	70-130	2	50
1016 Column 2	0	2.64	4.00	66% #	2.54	4.00	63% #	70-130	4	50
1260 Column 1	0	2.74	4.00	69% #	2.66	4.00	67% #	70-130	3	50
1260 Column 2	0	3.13	4.00	78%	3.06	4.00	76%	70-130	2	50

Laboratory control spiked sample recoveries are NOT corrected for the amount found in the reference (BL) sample.

~~and~~ updated limits attached.

4/25/17

Generated Tue Apr 25 09:14:12 2017

PCBSPK v2.07

PCB

PCB Sample Results Summary

Sample.....: 92041717L1
Data File....: M041717a04.D
Project.....: OCE-009D
Matrix.....: 42 - Wipe
Analyzed.....: 04/17/2017 16:59
Type.....: L1
Additional Info..: Sky Valley PCB Wipe 10mL fv
DP Method Path...: J:\Organics\Minerva\Methods\M032117PCB1260.M
Datafile Path....: J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\M041717a04.D

Date Prepped...: 4/17/2017
ICAL Date.....: 03/21/2017
Prep Method....: 3580A
Analysis Method: 8082A
Quant Column...: 1

Prepped By.: DWOOD
Analyst....: DWOOD
CID.....: 0
Acq. Method: M012116PCB2B.M
ASEQ Number: 4

Instrument.....: Minerva
Amount Extracted.: 40 wipe
Percent Solids...: NA
Final Volume.....: 10 mL
Dilution.....: 1x D0

m = manual integration
d = deleted
U = Undetected
J = Below calibrated range
E = Exceeds calibrated range

Pk	Low Cal (pg)[1]	High Cal (pg)[1]	Compound Name	RT	Exp RT	Response	Spike (pg)[1]	Amount (pg)[1]	Result Units	Q
1	2.5	250	tmx (1)	6.98	6.99	916966	50	34	69 %Rec	
12	2.5	250	dcb	17.77	17.79	547932	50	36	73 %Rec	
14	2.5	250	tmx (1) #2	4.80	4.80	1517770	50	36	73 %Rec	
25	2.5	250	dcb #2	13.28	13.28	943134	50	39	79 %Rec	
2	25	1000	1016 -1	7.59	7.60	114715	400	237	2.4 ug	
3	25	1000	1016-2	8.65	8.66	150184	400	257	2.6 ug	
4	25	1000	1016-3	9.30	9.31	198272	400	271	2.7 ug	
5	25	1000	1016-4	9.45	9.46	126428	400	260	2.6 ug	
6	25	1000	1016-5	9.55	9.56	39567	400	221	2.2 ug	
7	25	1000	1260-1	12.49	12.50	312298	400	281	2.8 ug	
8	25	1000	1260-2	12.92	12.94	370004	400	283	2.8 ug	
9	25	1000	1260-3	13.47	13.49	373709	400	282	2.8 ug	
10	25	1000	1260-4	15.32	15.34	262234	400	284	2.8 ug	
11	25	1000	1260-5	16.48	16.50	162793	400	275	2.8 ug	
15	25	1000	1016 -1 #2	5.34	5.34	206233	400	252	2.5 ug	
16	25	1000	1016-2 #2	5.80	5.81	358372	400	257	2.6 ug	
17	25	1000	1016-3 #2	6.42	6.42	528360	400	271	2.7 ug	
18	25	1000	1016-4 #2	6.59	6.60	302782	400	271	2.7 ug	
19	25	1000	1016-5 #2	6.68	6.68	218040	400	270	2.7 ug	
20	25	1000	1260-1 #2	8.94	8.94	537545	400	296	3.0 ug	
21	25	1000	1260-2 #2	9.37	9.38	808446	400	312	3.1 ug	
22	25	1000	1260-3 #2	9.81	9.82	615430	400	305	3.1 ug	
23	25	1000	1260-4 #2	10.92	10.92	1024970	400	307	3.1 ug	
24	25	1000	1260-5 #2	12.46	12.46	254581	400	311	3.1 ug	

CAS#	Name	Avg	Unit	n	%RSD	Column RPD[2]
12674112	1016 Column 1	62	%Rec	5	8 %	
12674112	1016 Column 2	66	%Rec	5	3 %	6 %
11096825	1260 Column 1	70	%Rec	5	1 %	
11096825	1260 Column 2	77	%Rec	5	2 %	9 %

Results will be reported from Column 1

Note that avg results for LCS/MS samples do not reflect native amount adjustment.

[1]'Amount' units are pg or pg/uL on column. [2]RPD (Relative Percent Difference) is the percent difference between the result of column 1 and the result of column 2. The values are calculated using the non-rounded average result values. (|A-B|/((A+B)*0.5))*100 is the formula used for the calculation. The value should nominally be <= 40%.

Sample Concentration = (Amt)*(Final Volume[mL])*(Dilution)/Amount Extracted = ug/L, ug/kg, ug/g, or ug.

Generated Tue Apr 25 10:01:12 2017

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\
Data File : M041717a04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Apr 2017 4:59 pm
Operator : DWOOD
Sample : 92041717L1
Misc : Sky Valley PCB Wipe 10mL fv
ALS Vial : 0 (Sig #1); 4 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 14:02:59 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32
Signal #2 Phase: CLPest2
Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	6.980	4.798	916966	1517767	34.313	36.290
12) S2 dcb	17.766	13.277	547932	943134	36.449	39.391
Target Compounds						
2) L1 1016 -1	7.589	5.341	114715	206233	236.538	252.019
3) L1 1016-2	8.652	5.804	150184	358372	256.671	256.991
4) L1 1016-3	9.305	6.418	198272	528360	270.442	271.424
5) L1 1016-4	9.447	6.593	126428	302782	259.439	271.054
6) L1 1016-5	9.548	6.677	39567	218040	222.541	270.333
Sum 1016 -1			629166	1613787	1245.632	1321.821
Average 1016 -1					249.126	264.364
7) L2 1260-1	13.779	10.544	272740	129226	282.978	320.799
8) L2 1260-2	13.878	11.449	145426	254379	284.569	303.271
9) L2 1260-3	15.461	11.524	144775	215372	257.061	309.085
10) L2 1260-4	15.567	12.003	164827	115162	270.738	320.196
11) L2 1260-5	16.479	12.455	162793	254581	275.483	311.128
Sum 1260-1			890562	968720	1370.829	1564.479
Average 1260-1					274.166	312.896

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

MW 4/24/17

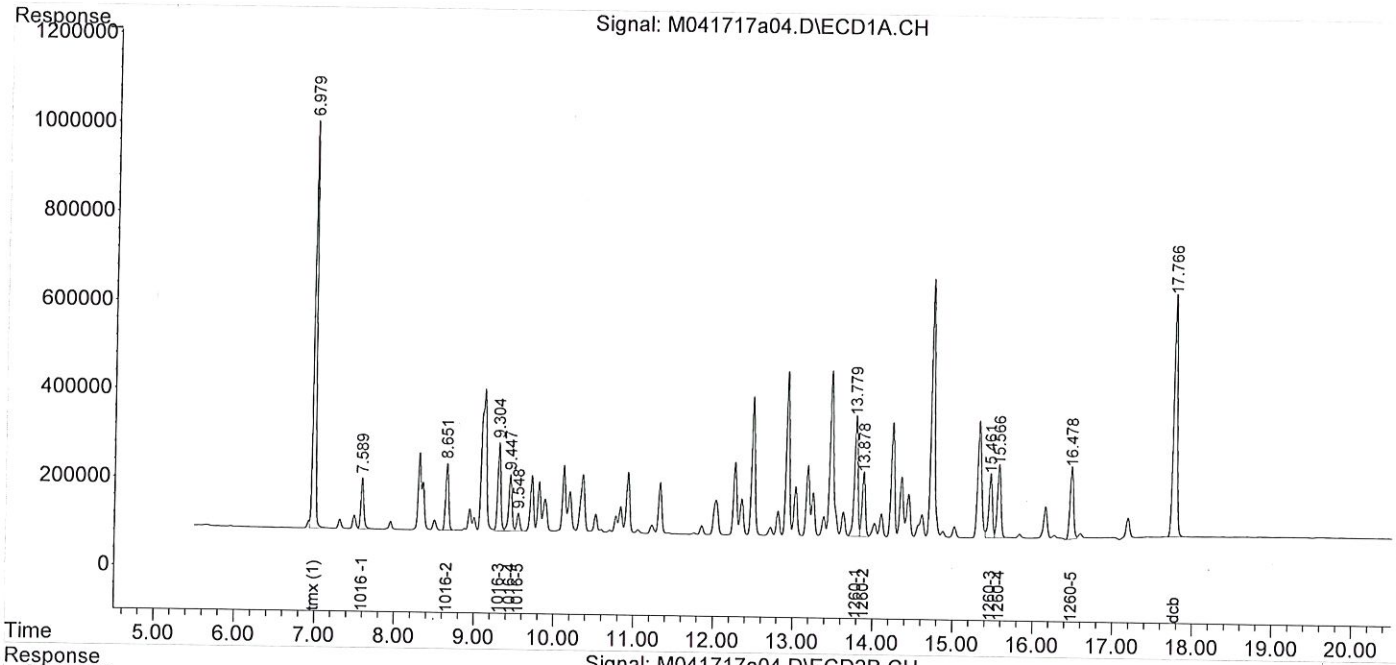
Quantitation Report (QT Reviewed)

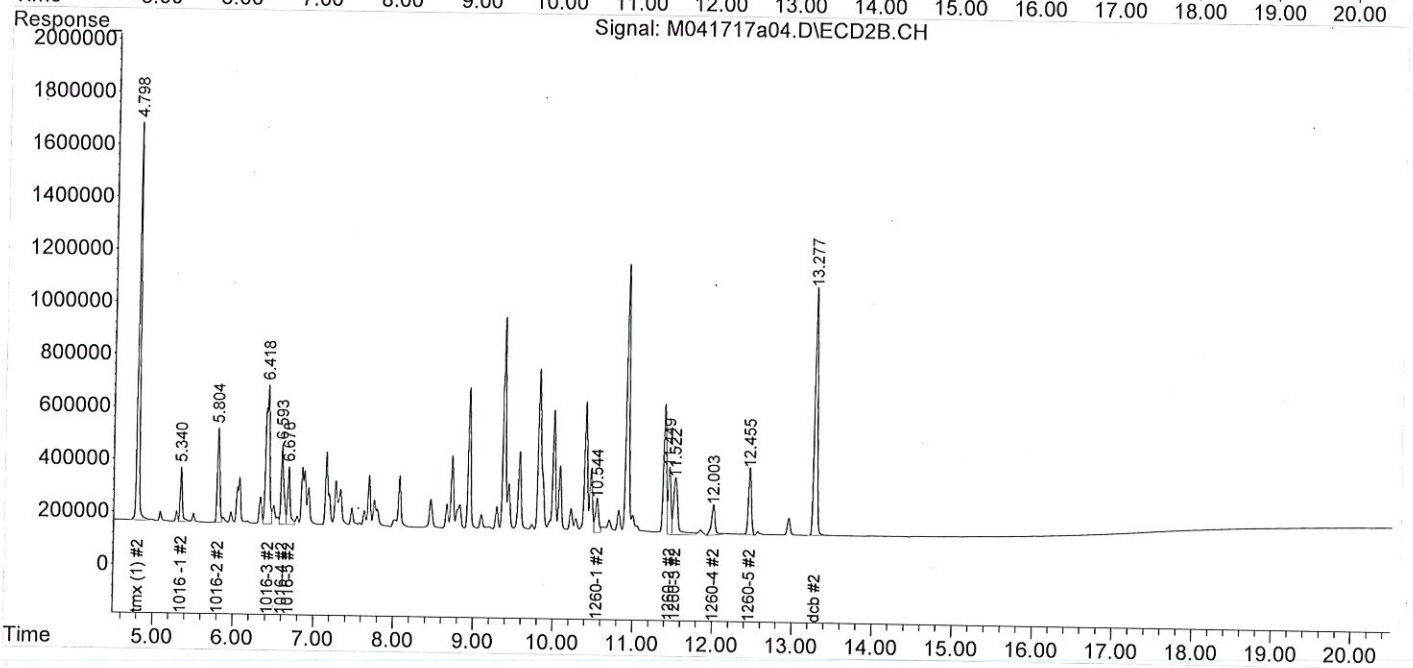
Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\
Data File : M041717a04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Apr 2017 4:59 pm
Operator : DWOOD
Sample : 92O41717L1
Misc : Sky Valley PCB Wipe 10mL fv
ALS Vial : 0 (Sig #1); 4 (Sig #2) Sample Multiplier: 1

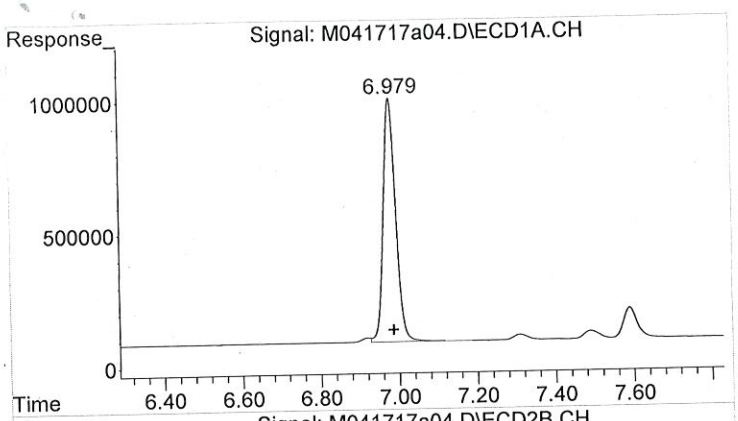
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 14:02:59 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32

Signal #2 Phase: CLPest2
Signal #2 Info : .32

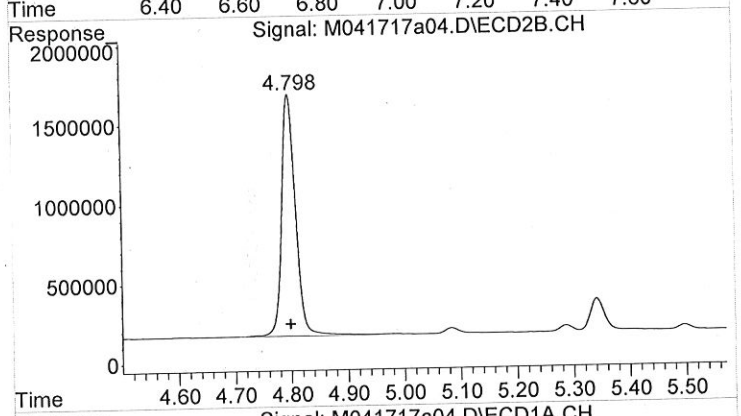






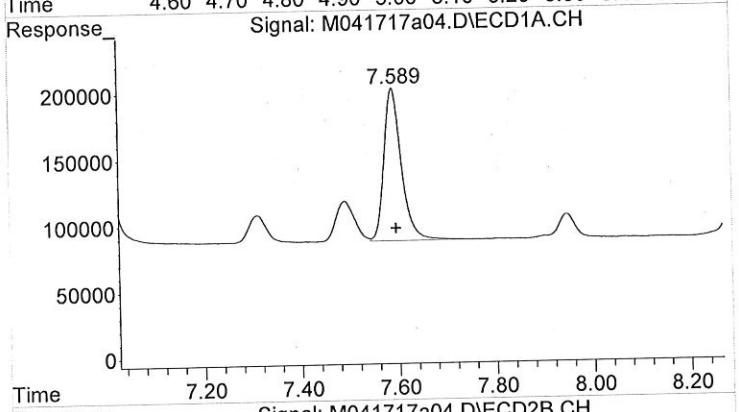
#1 tmx (1)

R.T.: 6.980 min
Delta R.T.: -0.006 min
Response: 916966
Conc: 34.31 pg/uL



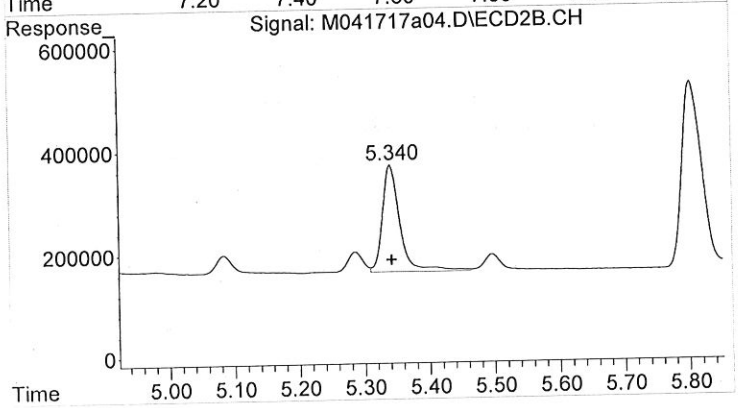
#1 tmx (1)

R.T.: 4.798 min
Delta R.T.: 0.000 min
Response: 1517767
Conc: 36.29 pg/uL



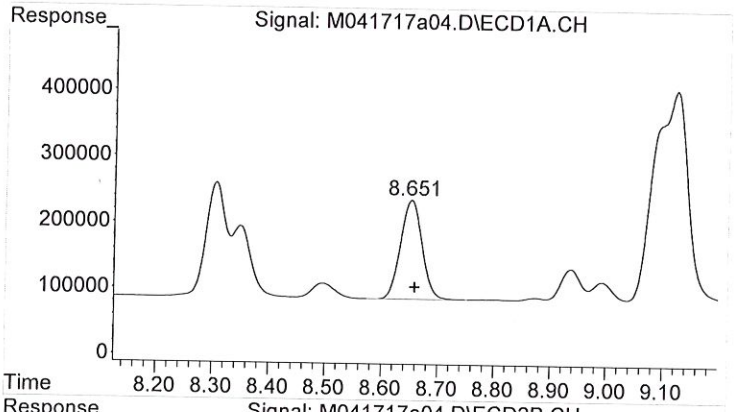
#2 1016 -1

R.T.: 7.589 min
Delta R.T.: -0.007 min
Response: 114715
Conc: 236.54 pg/uL



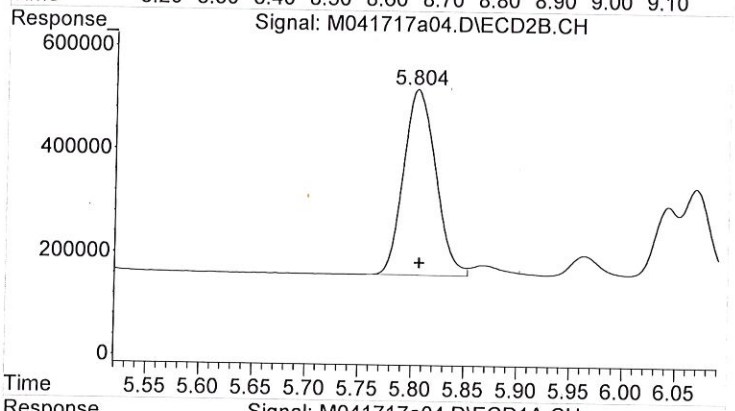
#2 1016 -1

R.T.: 5.341 min
Delta R.T.: -0.002 min
Response: 206233
Conc: 252.02 pg/uL



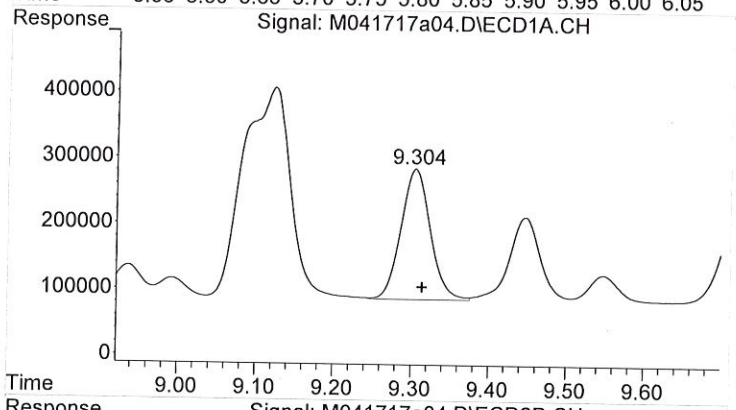
#3 1016-2

R.T.: 8.652 min
Delta R.T.: -0.007 min
Response: 150184
Conc: 256.67 pg/uL



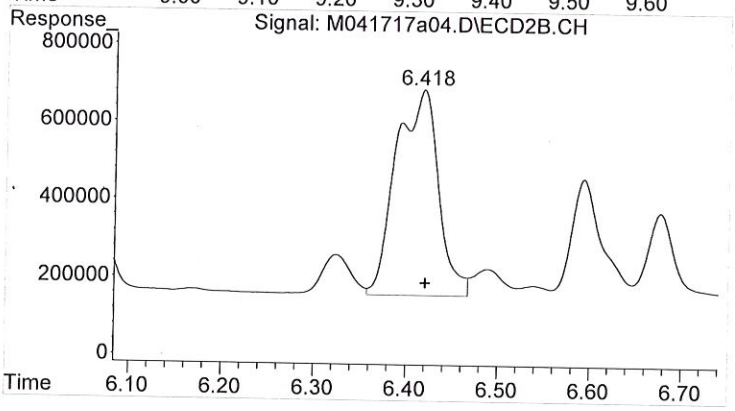
#3 1016-2

R.T.: 5.804 min
Delta R.T.: -0.003 min
Response: 358372
Conc: 256.99 pg/uL



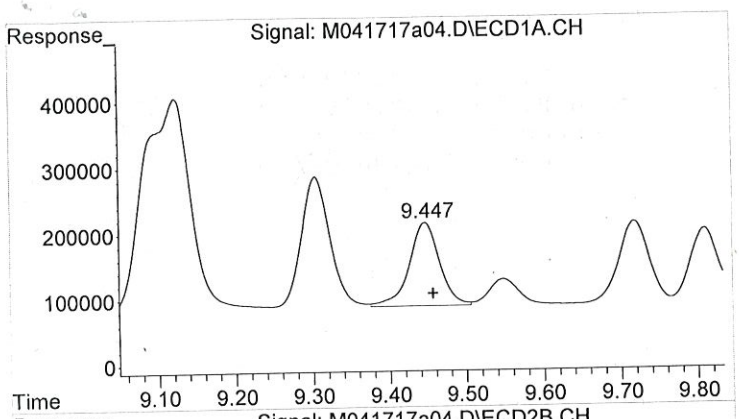
#4 1016-3

R.T.: 9.305 min
Delta R.T.: -0.009 min
Response: 198272
Conc: 270.44 pg/uL



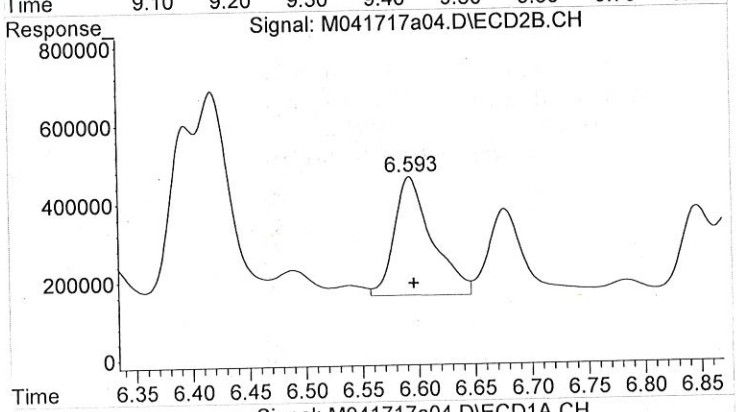
#4 1016-3

R.T.: 6.418 min
Delta R.T.: -0.003 min
Response: 528360
Conc: 271.42 pg/uL



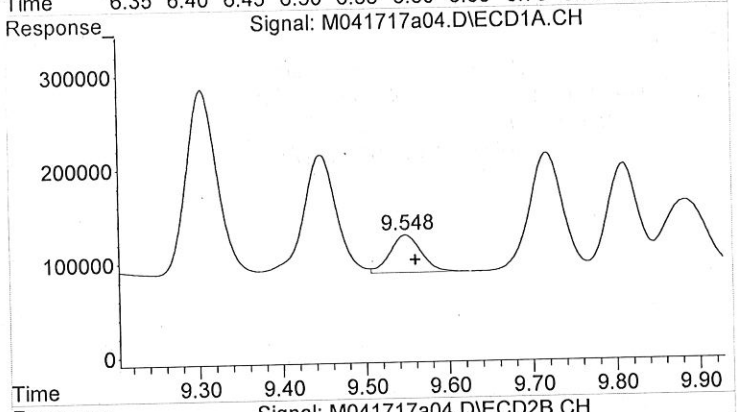
#5 1016-4

R.T.: 9.447 min
Delta R.T.: -0.010 min
Response: 126428
Conc: 259.44 pg/uL



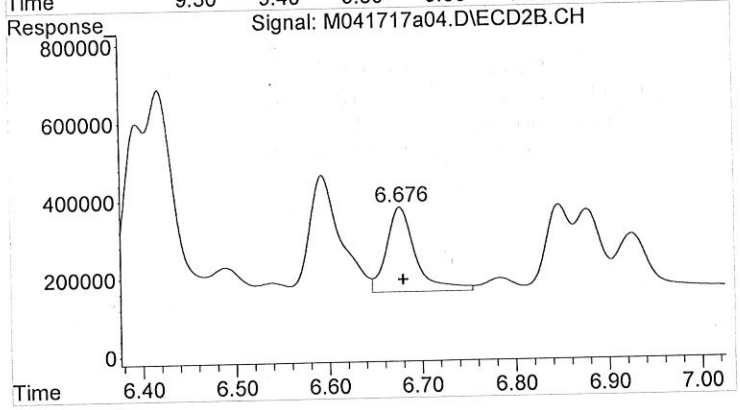
#5 1016-4

R.T.: 6.593 min
Delta R.T.: -0.003 min
Response: 302782
Conc: 271.05 pg/uL



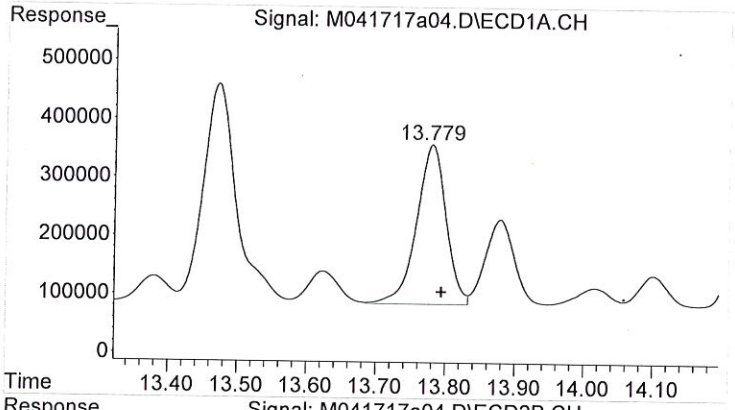
#6 1016-5

R.T.: 9.548 min
Delta R.T.: -0.012 min
Response: 39567
Conc: 222.54 pg/uL



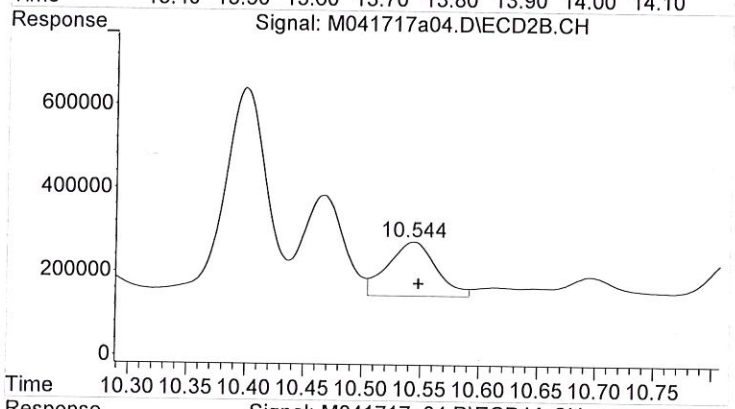
#6 1016-5

R.T.: 6.677 min
Delta R.T.: -0.003 min
Response: 218040
Conc: 270.33 pg/uL



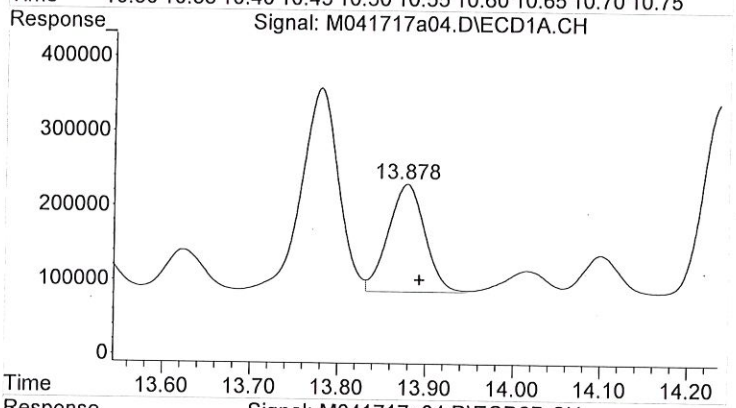
#7 1260-1

R.T.: 13.779 min
Delta R.T.: -0.015 min
Response: 272740
Conc: 282.98 pg/uL



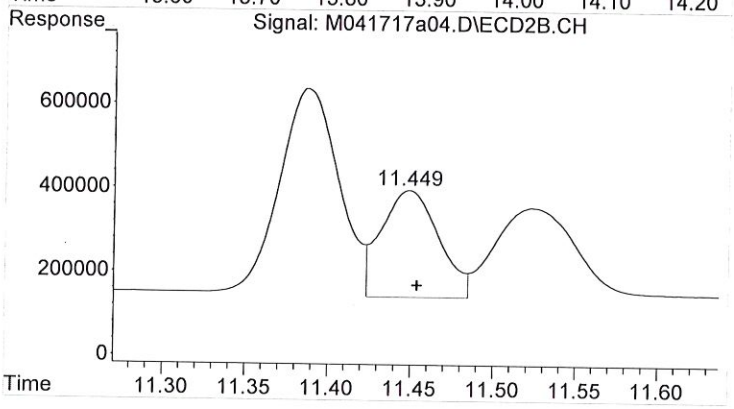
#7 1260-1

R.T.: 10.544 min
Delta R.T.: -0.004 min
Response: 129226
Conc: 320.80 pg/uL



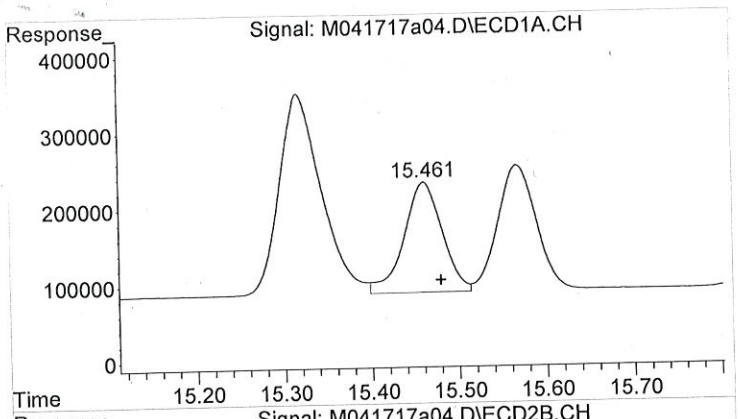
#8 1260-2

R.T.: 13.878 min
Delta R.T.: -0.015 min
Response: 145426
Conc: 284.57 pg/uL



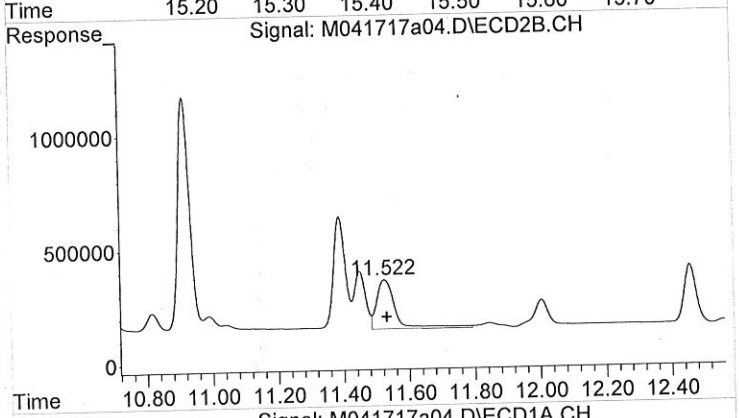
#8 1260-2

R.T.: 11.449 min
Delta R.T.: -0.005 min
Response: 254379
Conc: 303.27 pg/uL



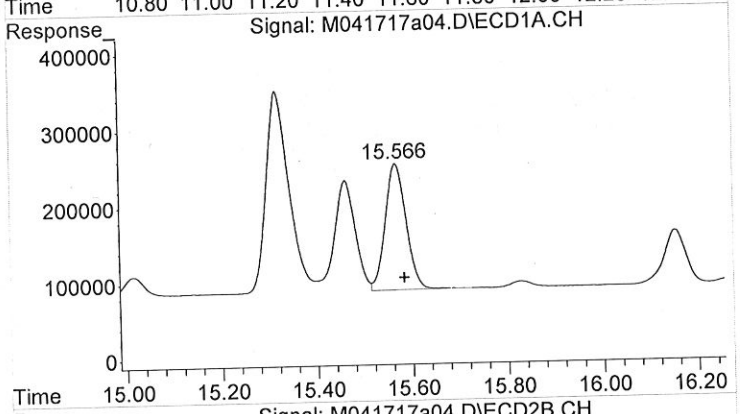
#9 1260-3

R.T.: 15.461 min
Delta R.T.: -0.019 min
Response: 144775
Conc: 257.06 pg/uL



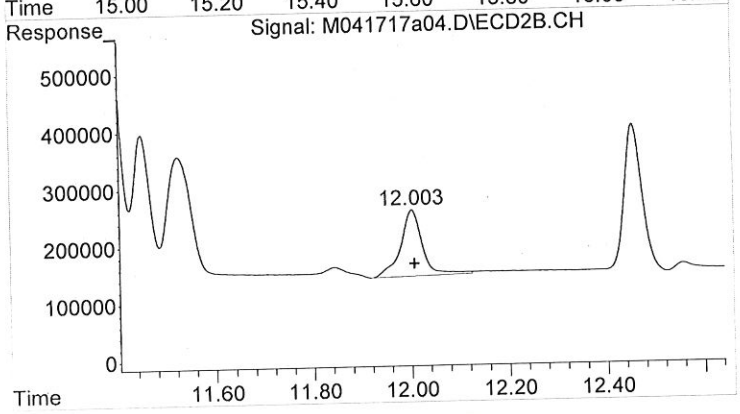
#9 1260-3

R.T.: 11.524 min
Delta R.T.: -0.007 min
Response: 215372
Conc: 309.09 pg/uL



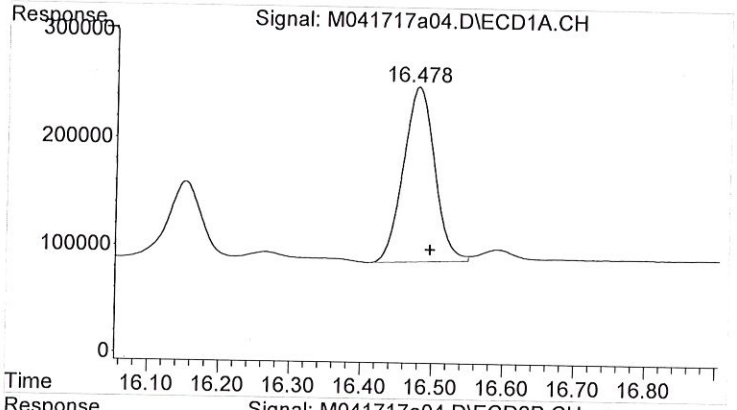
#10 1260-4

R.T.: 15.567 min
Delta R.T.: -0.017 min
Response: 164827
Conc: 270.74 pg/uL



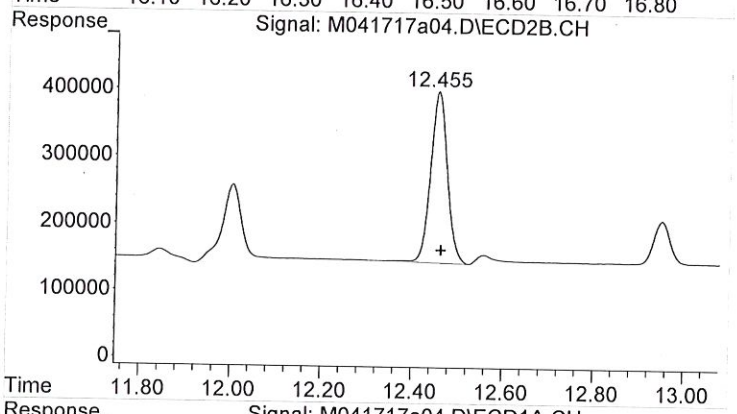
#10 1260-4

R.T.: 12.003 min
Delta R.T.: -0.005 min
Response: 115162
Conc: 320.20 pg/uL



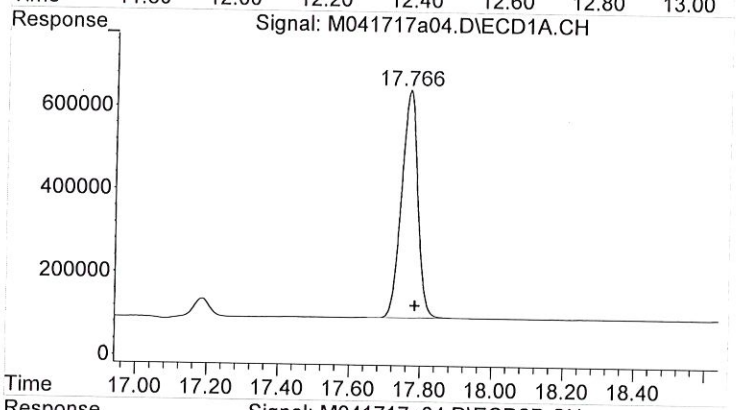
#11 1260-5

R.T.: 16.479 min
Delta R.T.: -0.018 min
Response: 162793
Conc: 275.48 pg/uL



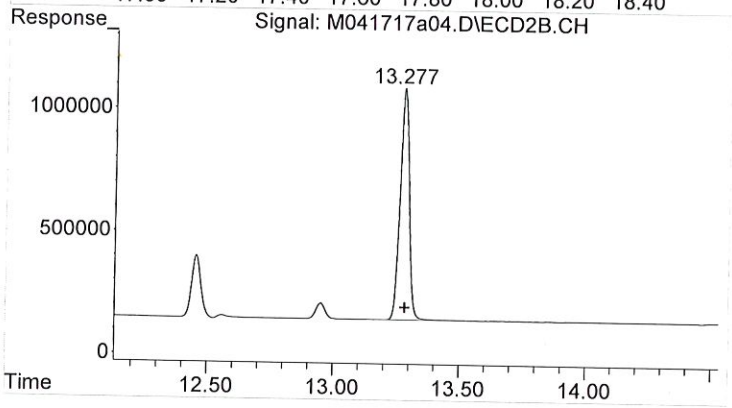
#11 1260-5

R.T.: 12.455 min
Delta R.T.: -0.008 min
Response: 254581
Conc: 311.13 pg/uL



#12 dcb

R.T.: 17.766 min
Delta R.T.: -0.019 min
Response: 547932
Conc: 36.45 pg/uL



#12 dcb

R.T.: 13.277 min
Delta R.T.: -0.007 min
Response: 943134
Conc: 39.39 pg/uL

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\
Data File : M041717a04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Apr 2017 16:59 pm
Operator : DWOOD
Sample : 92041717L1
Misc : Sky Valley PCB Wipe 10mL fv
ALS Vial : 0 (Sig #1); 4 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 14:02:59 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32
Signal #2 Phase: CLPest2
Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	6.980	4.798	916966	1517767	34.313	36.290
12) S2 dcb	17.766	13.277	547932	943134	36.449	39.391
Target Compounds						
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3) L1 1016-2	8.652	5.804	150184	358372	256.671	256.991
4) L1 1016-3	9.305	6.418	198272	528360	270.442	271.424
5) L1 1016-4	9.447	6.593	126428	302782	259.439	271.054
6) L1 1016-5	9.548	6.677	39567	218040	222.541	270.333
Sum 1016 -1			629166	1613787	1245.632	1321.821
Average 1016 -1					249.126	264.364
7) L2 1260-1	13.779	10.544	272740	129226	282.978	320.799
8) L2 1260-2	13.878	11.449	145426	254379	284.569	303.271
9) L2 1260-3	15.461	11.524	144775	215372	257.061	309.085
10) L2 1260-4	15.567	12.003	164827	115162	270.738	320.196
11) L2 1260-5	16.479	12.455	162793	254581	275.483	311.128
Sum 1260-1			890562	968720	1370.829	1564.479
Average 1260-1					274.166	312.896

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

hw
4/24/17

PCB

PCB Sample Results Summary

Sample.....: 92041717L2
Data File....: M041717a05.D
Project.....: OCE-009D
Matrix.....: 42 - Wipe
Analyzed.....: 04/17/2017 17:24
Type.....: L2
Additional Info..: Sky Valley PCB Wipe 10mL fv
DP Method Path...: J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Datafile Path....: J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\M041717a05.D

Date Prepped...: 4/17/2017
ICAL Date.....: 03/21/2017
Prep Method....: 3580A
Analysis Method: 8082A
Quant Column...: 1

Prepped By.: DWOOD
Analyst....: DWOOD
CID.....: 0
Acq. Method: M012116PCB2B.M
ASEQ Number: 5

Instrument.....: Minerva
Amount Extracted.: 40 wipe
Percent Solids...: NA
Final Volume.....: 10 mL
Dilution.....: 1x D0

m = manual integration
d = deleted
U = Undetected
J = Below calibrated range
E = Exceeds calibrated range

Pk	Low Cal (pg)[1]	High Cal (pg)[1]	Compound Name	RT	Exp RT	Response	Spike (pg)[1]	Amount (pg)[1]	Result Units	Q
1	2.5	250	tmx (1)	6.98	6.99	899609	50	34	67 %Rec	
12	2.5	250	dcb	17.76	17.79	523959	50	35	70 %Rec	
14	2.5	250	tmx (1) #2	4.80	4.80	1516020	50	36	72 %Rec	
25	2.5	250	dcb #2	13.28	13.28	924927	50	39	77 %Rec	
2	25	1000	1016 -1	7.59	7.60	113764	400	234	2.3 ug	
3	25	1000	1016-2	8.65	8.66	145609	400	248	2.5 ug	
4	25	1000	1016-3	9.31	9.31	192864	400	263	2.6 ug	
5	25	1000	1016-4	9.45	9.46	122546	400	251	2.5 ug	
6	25	1000	1016-5	9.55	9.56	39058	400	219	2.2 ug	
7	25	1000	1260-1	13.78	13.79	268608	400	278	2.8 ug	
8	25	1000	1260-2	13.88	13.89	140777	400	275	2.7 ug	
9	25	1000	1260-3	15.46	15.48	138955	400	246	2.5 ug	
10	25	1000	1260-4	15.57	15.58	163301	400	268	2.7 ug	
11	25	1000	1260-5	16.48	16.50	156576	400	265	2.6 ug	
15	25	1000	1016 -1 #2	5.34	5.34	201119	400	246	2.5 ug	
16	25	1000	1016-2 #2	5.81	5.81	340620	400	244	2.4 ug	
17	25	1000	1016-3 #2	6.42	6.42	508630	400	261	2.6 ug	
18	25	1000	1016-4 #2	6.59	6.60	287432	400	257	2.6 ug	
19	25	1000	1016-5 #2	6.68	6.68	211264	400	262	2.6 ug	
20	25	1000	1260-1 #2	10.54	10.55	123427	400	306	3.1 ug	
21	25	1000	1260-2 #2	11.45	11.45	246931	400	294	2.9 ug	
22	25	1000	1260-3 #2	11.53	11.53	210678	400	302	3.0 ug	
23	25	1000	1260-4 #2	12.00	12.01	115103	400	320	3.2 ug	
24	25	1000	1260-5 #2	12.46	12.46	250239	400	306	3.1 ug	

CAS#	Name	Avg	Unit	n	%RSD	Column RPD[2]
12674112	1016 Column 1	61	%Rec	5	7 %	
12674112	1016 Column 2	63	%Rec	5	3 %	4 %
11096825	1260 Column 1	67	%Rec	5	5 %	
11096825	1260 Column 2	76	%Rec	5	3 %	14 %

Results will be reported from Column 1

Note that avg results for LCS/MS samples do not reflect native amount adjustment.

[1]'Amount' units are pg or pg/uL on column. [2]RPD (Relative Percent Difference) is the percent difference between the result of column 1 and the result of column 2. The values are calculated using the non-rounded average result values. (|A-B|/((A+B)*0.5))*100 is the formula used for the calculation. The value should nominally be <= 40%.

Sample Concentration = (Amt)*(Final Volume[mL])*(Dilution)/Amount Extracted = ug/L, ug/kg, ug/g, or ug.

Generated Tue Apr 25 10:01:16 2017

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\
Data File : M041717a05.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Apr 2017 5:24 pm
Operator : DWOOD
Sample : 92041717L2
Misc : Sky Valley PCB Wipe 10mL fv
ALS Vial : 0 (Sig #1); 5 (Sig #2) Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 24 14:03:06 2017
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32
Signal #2 Phase: CLPest2
Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	6.980	4.799	899609	1516015	33.654	36.247
12) S2 dcb	17.763	13.279	523959	924927	34.799	38.627
Target Compounds						
2) L1 1016 -1	7.589	5.342	113764	201119	234.388	245.636
3) L1 1016-2	8.652	5.805	145609	340620	248.466	243.557
4) L1 1016-3	9.305	6.419	192864	508630	262.758	261.253
5) L1 1016-4	9.446	6.593	122546	287432	251.209	257.199
6) L1 1016-5	9.549	6.678	39058	211264	219.390	261.888
Sum 1016 -1			613841	1549065	1216.211	1269.533
Average 1016 -1					243.242	253.907
7) L2 1260-1	13.779	10.545	268608	123427	278.496	306.472
8) L2 1260-2	13.879	11.449	140777	246931	274.820	294.331
9) L2 1260-3	15.462	11.526	138955	210678	245.708	302.351
10) L2 1260-4	15.568	12.004	163301	115103	268.142	320.032
11) L2 1260-5	16.479	12.457	156576	250239	264.537	305.828
Sum 1260-1			868218	946378	1331.702	1529.014
Average 1260-1					266.340	305.803

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

lw
4/24/17

Quantitation Report (QT Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\
Data File : M041717a05.D
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Acq On : 17 Apr 2017 5:24 pm
Operator : DWOOD
Sample : 92041717L2
Misc : Sky Valley PCB Wipe 10mL fv
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Integration File signal 2: autoint2.e
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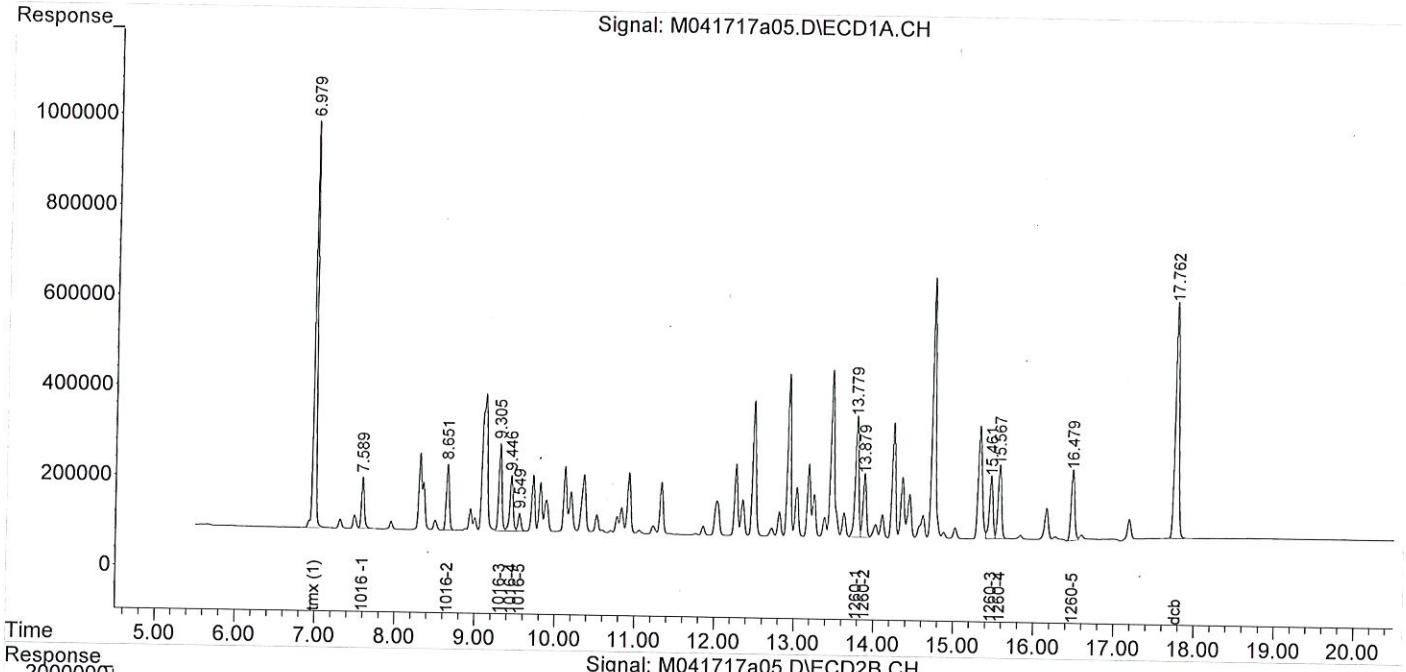
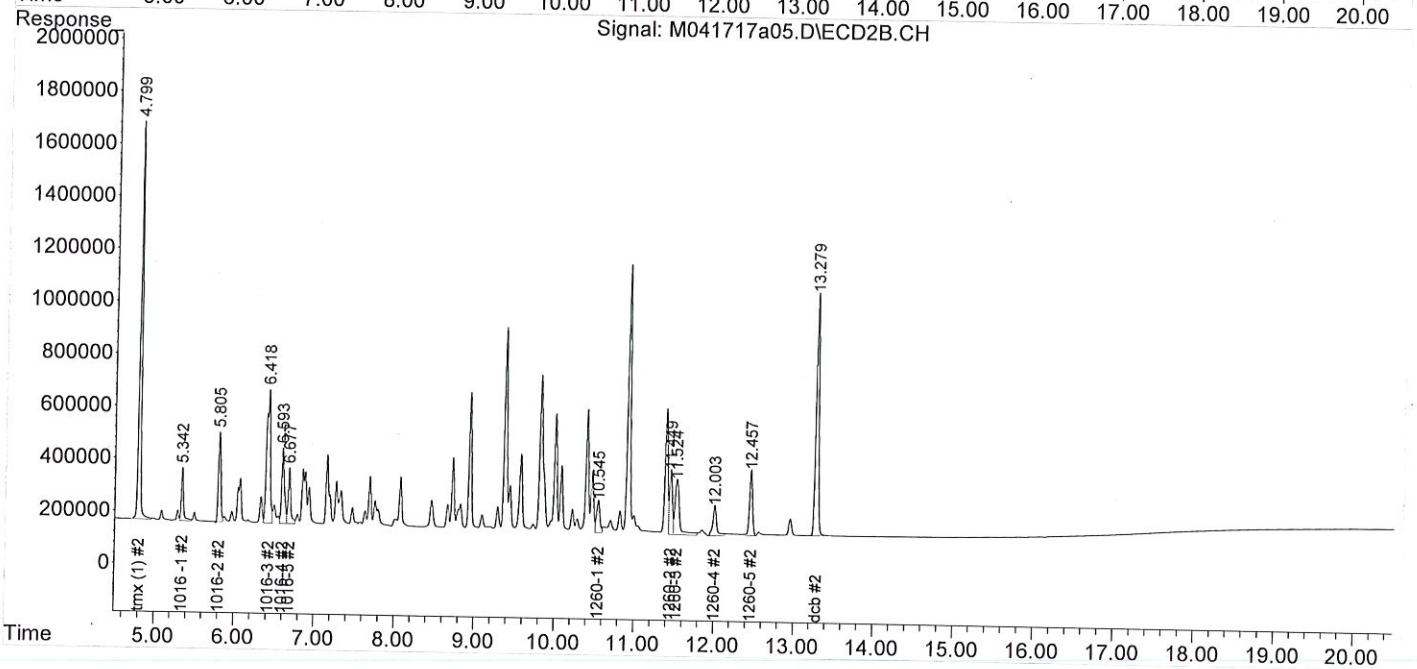
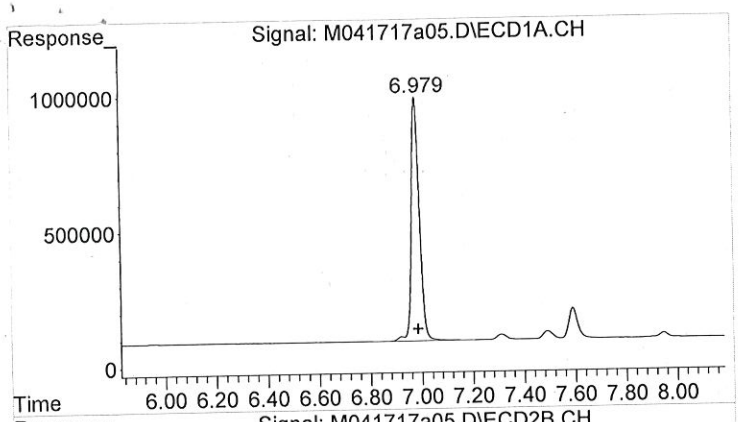
Quant Method : J:\Organics\Minerva\Methods\M032117PCB1260_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32

Signal #2 Phase: CLPest2
Signal #2 Info : .32

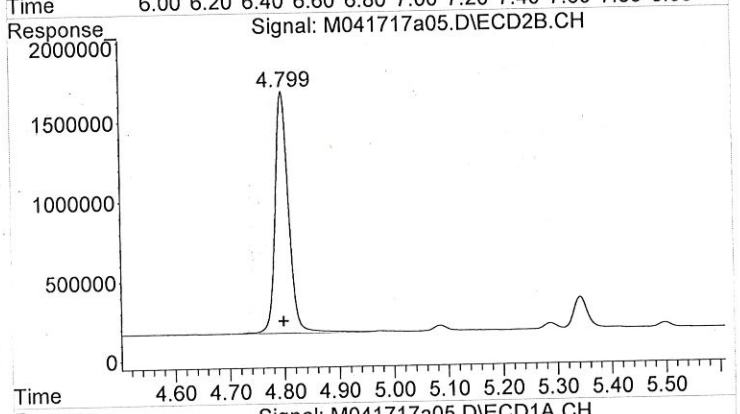






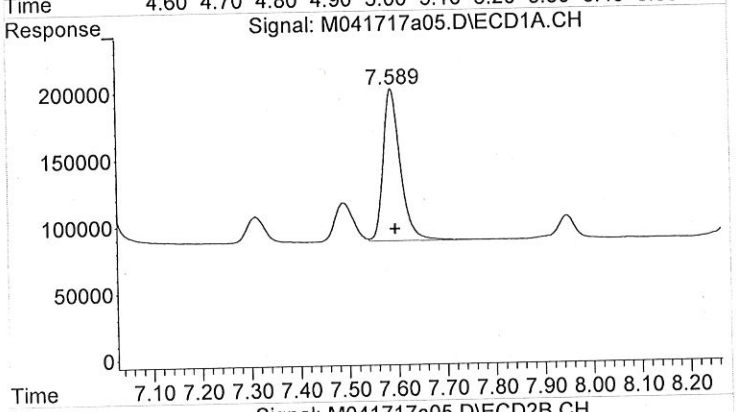
#1 tmx (1)

R.T.: 6.980 min
Delta R.T.: -0.006 min
Response: 899609
Conc: 33.65 pg/uL



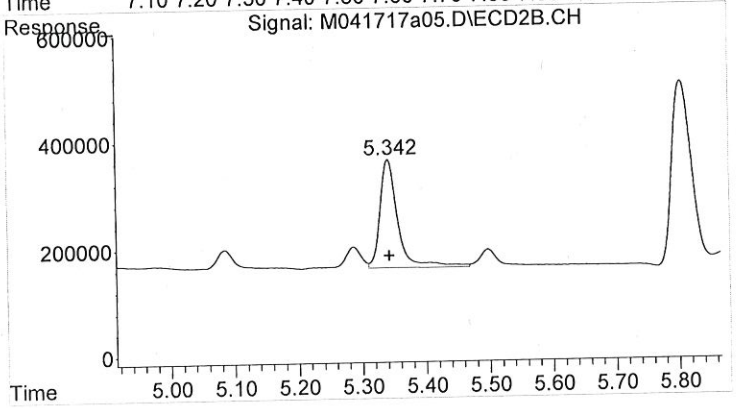
#1 tmx (1)

R.T.: 4.799 min
Delta R.T.: 0.000 min
Response: 1516015
Conc: 36.25 pg/uL



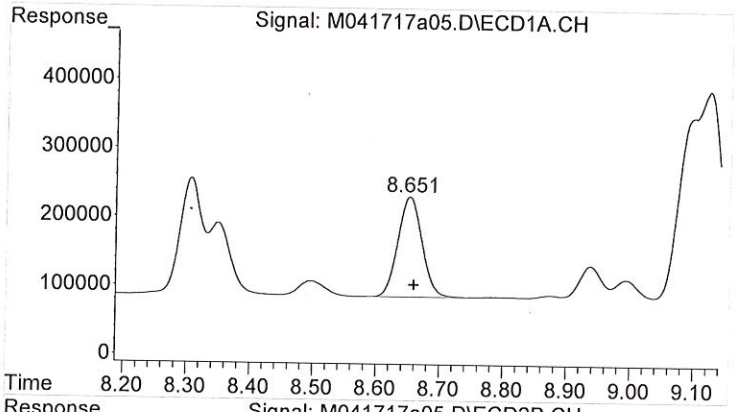
#2 1016 -1

R.T.: 7.589 min
Delta R.T.: -0.007 min
Response: 113764
Conc: 234.39 pg/uL



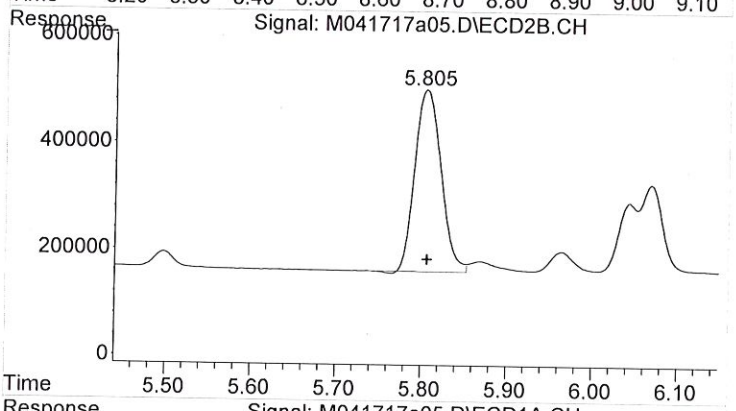
#2 1016 -1

R.T.: 5.342 min
Delta R.T.: -0.001 min
Response: 201119
Conc: 245.64 pg/uL



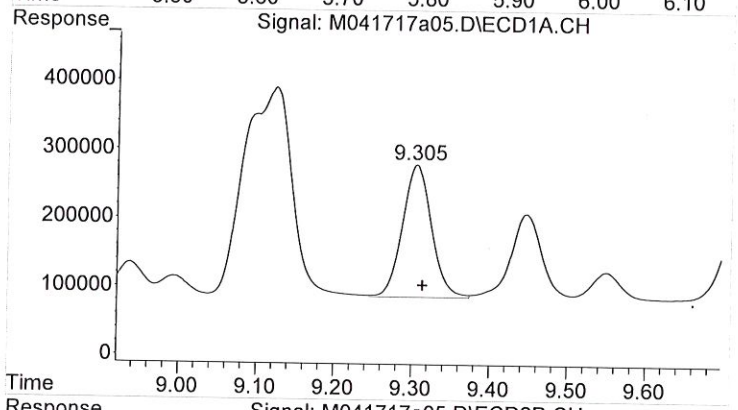
#3 1016-2

R.T.: 8.652 min
Delta R.T.: -0.007 min
Response: 145609
Conc: 248.47 pg/uL



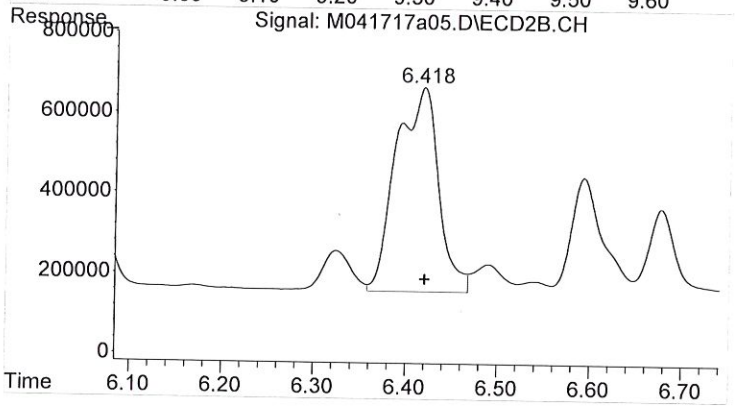
#3 1016-2

R.T.: 5.805 min
Delta R.T.: -0.002 min
Response: 340620
Conc: 243.56 pg/uL



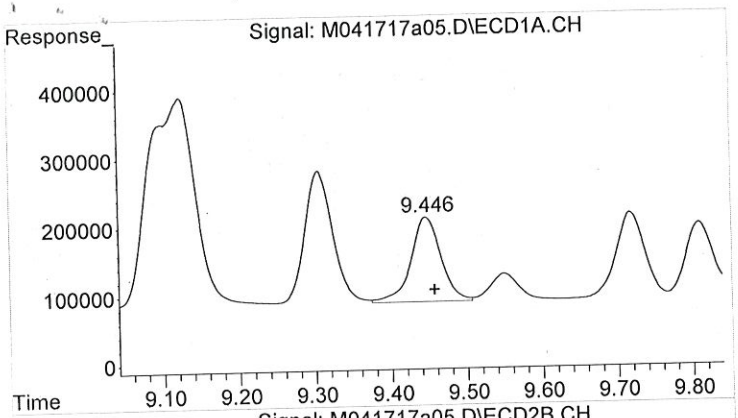
#4 1016-3

R.T.: 9.305 min
Delta R.T.: -0.009 min
Response: 192864
Conc: 262.76 pg/uL



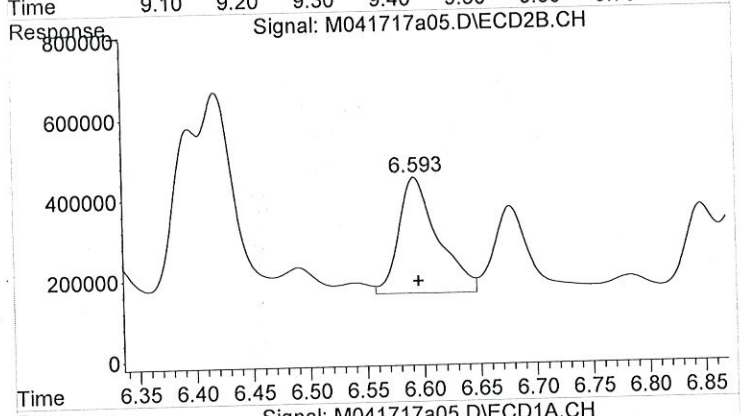
#4 1016-3

R.T.: 6.419 min
Delta R.T.: -0.002 min
Response: 508630
Conc: 261.25 pg/uL



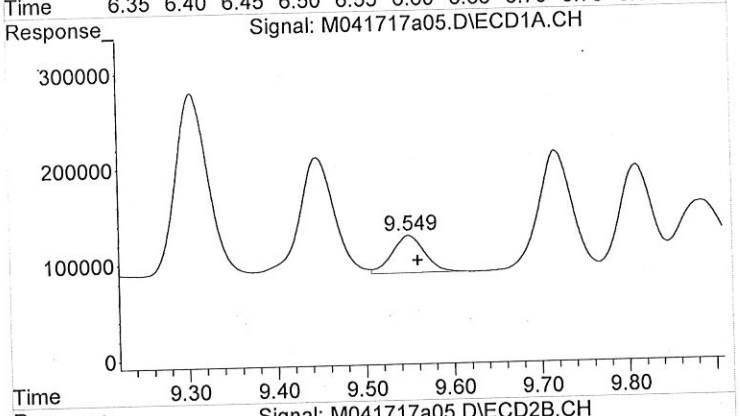
#5 1016-4

R.T.: 9.446 min
Delta R.T.: -0.011 min
Response: 122546
Conc: 251.21 pg/uL



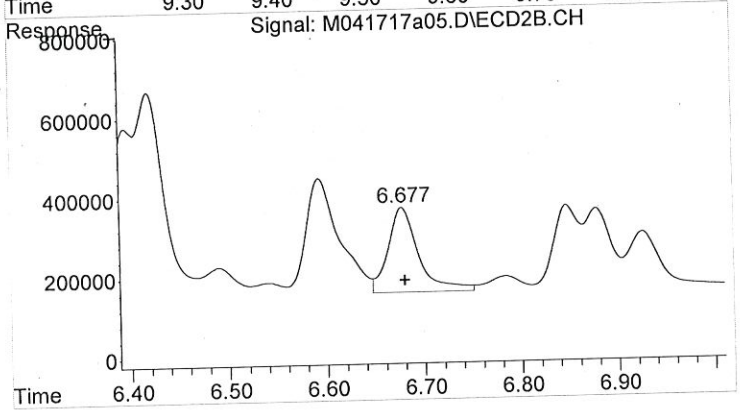
#5 1016-4

R.T.: 6.593 min
Delta R.T.: -0.003 min
Response: 287432
Conc: 257.20 pg/uL



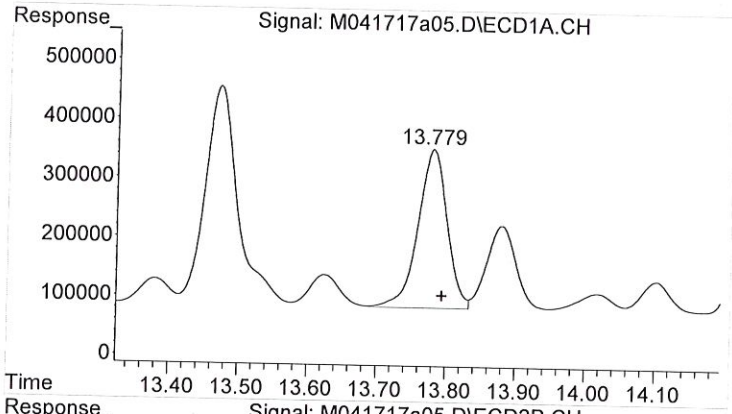
#6 1016-5

R.T.: 9.549 min
Delta R.T.: -0.011 min
Response: 39058
Conc: 219.39 pg/uL



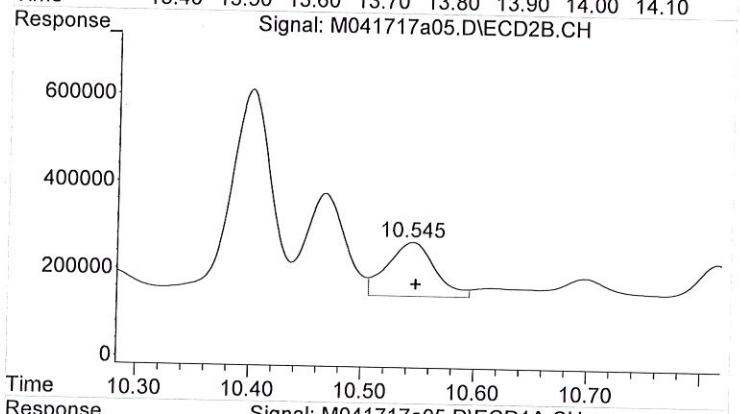
#6 1016-5

R.T.: 6.678 min
Delta R.T.: -0.002 min
Response: 211264
Conc: 261.89 pg/uL



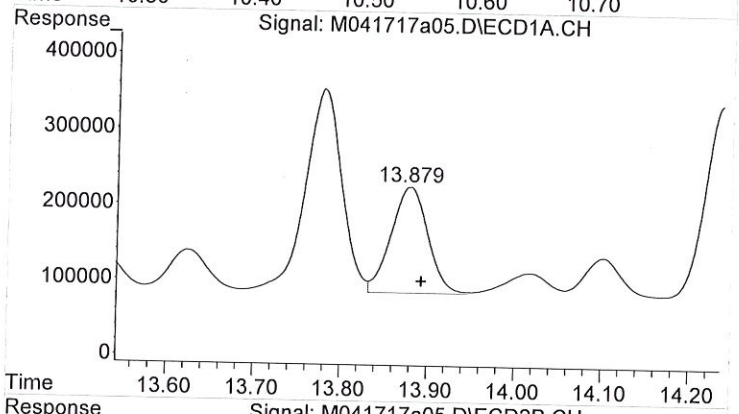
#7 1260-1

R.T.: 13.779 min
Delta R.T.: -0.015 min
Response: 268608
Conc: 278.50 pg/uL



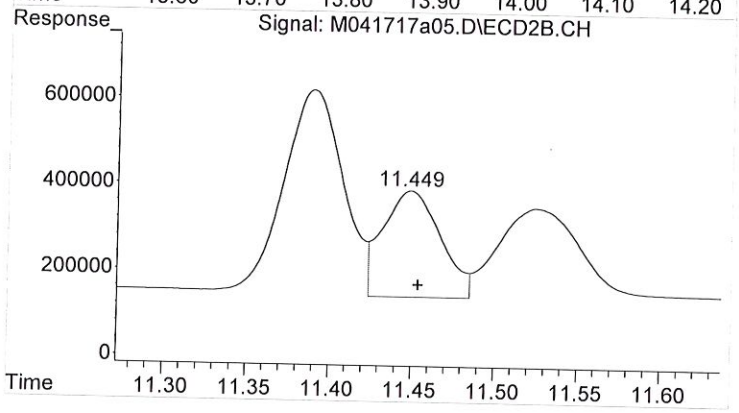
#7 1260-1

R.T.: 10.545 min
Delta R.T.: -0.003 min
Response: 123427
Conc: 306.47 pg/uL



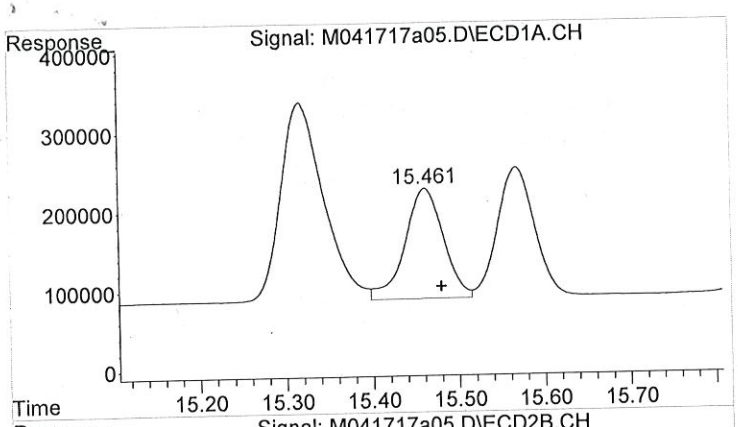
#8 1260-2

R.T.: 13.879 min
Delta R.T.: -0.014 min
Response: 140777
Conc: 274.82 pg/uL



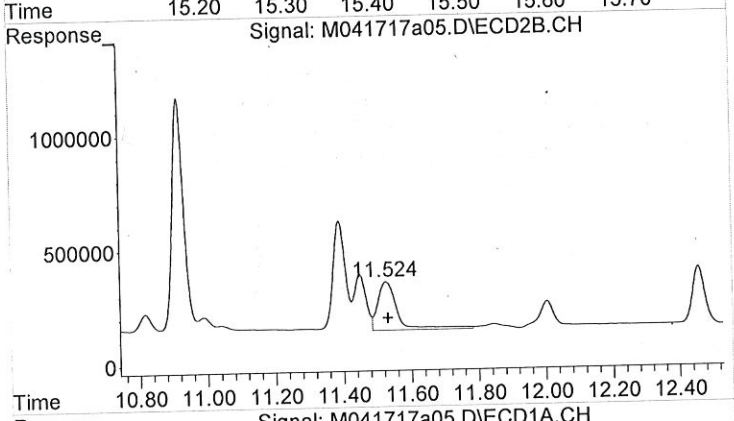
#8 1260-2

R.T.: 11.449 min
Delta R.T.: -0.005 min
Response: 246931
Conc: 294.33 pg/uL



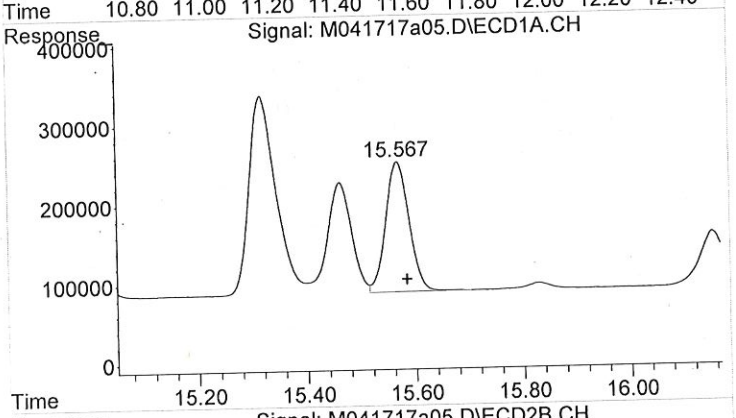
#9 1260-3

R.T.: 15.462 min
Delta R.T.: -0.018 min
Response: 138955
Conc: 245.71 pg/uL



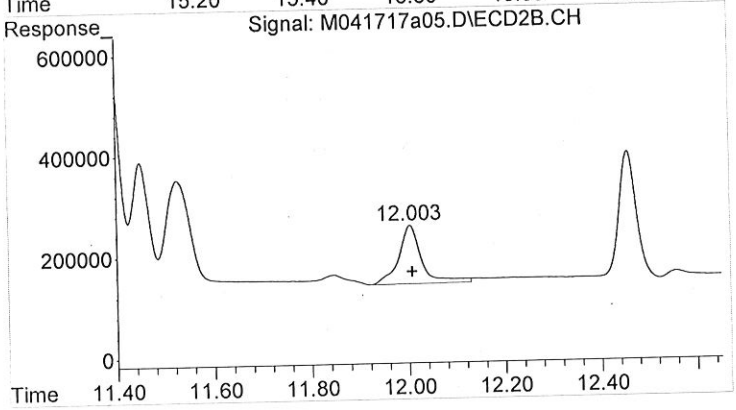
#9 1260-3

R.T.: 11.526 min
Delta R.T.: -0.005 min
Response: 210678
Conc: 302.35 pg/uL



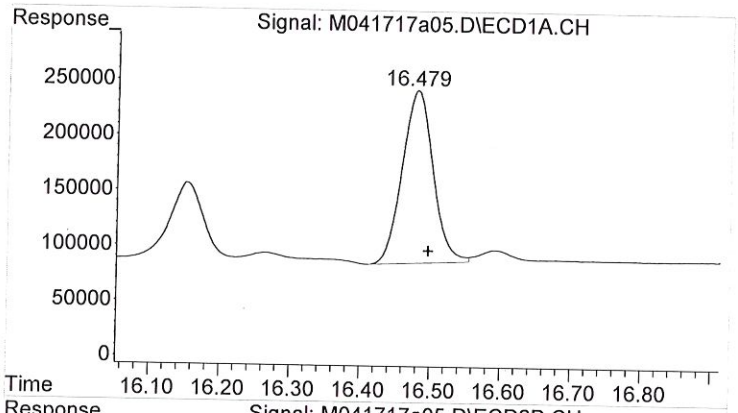
#10 1260-4

R.T.: 15.568 min
Delta R.T.: -0.016 min
Response: 163301
Conc: 268.14 pg/uL



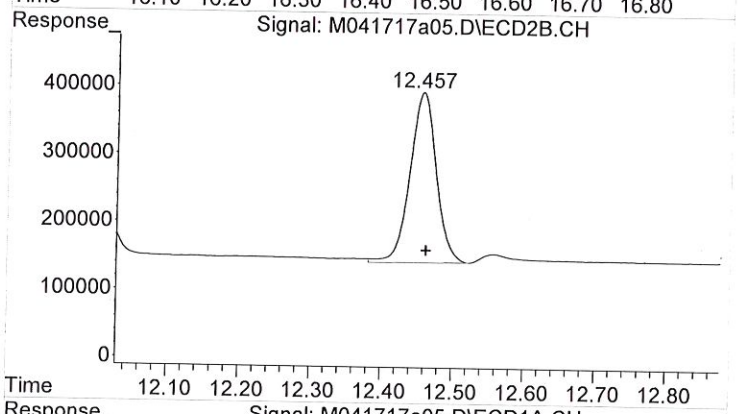
#10 1260-4

R.T.: 12.004 min
Delta R.T.: -0.004 min
Response: 115103
Conc: 320.03 pg/uL



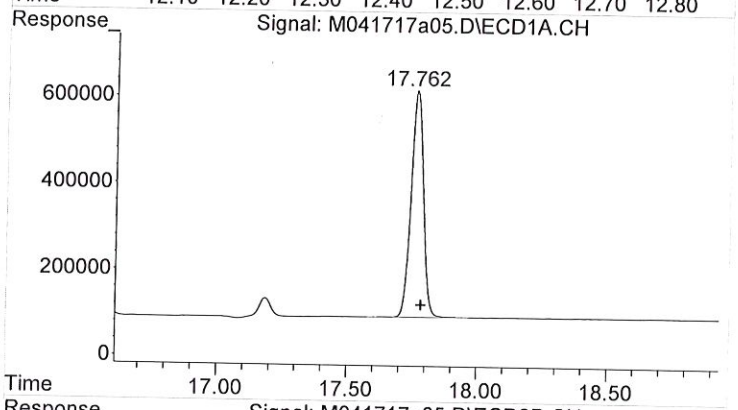
#11 1260-5

R.T.: 16.479 min
Delta R.T.: -0.018 min
Response: 156576
Conc: 264.54 pg/uL



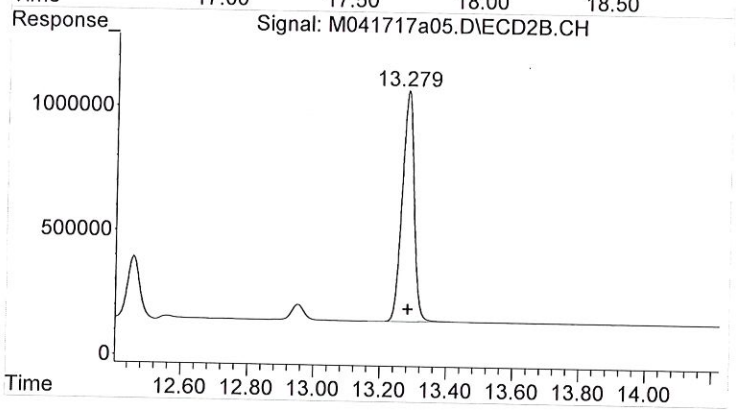
#11 1260-5

R.T.: 12.457 min
Delta R.T.: -0.006 min
Response: 250239
Conc: 305.83 pg/uL



#12 dcb

R.T.: 17.763 min
Delta R.T.: -0.022 min
Response: 523959
Conc: 34.80 pg/uL



#12 dcb

R.T.: 13.279 min
Delta R.T.: -0.005 min
Response: 924927
Conc: 38.63 pg/uL

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041717PCBDW\
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Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 17 Apr 2017 17:24 pm
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Misc : Sky Valley PCB Wipe 10mL fv
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Integration File signal 2: autoint2.e
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QLast Update : Tue Apr 18 12:22:05 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest
Signal #1 Info : .32
Signal #2 Phase: CLPest2
Signal #2 Info : .32

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
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9) L2 1260-3	15.462	11.526	138955	210678	245.708	302.351
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(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

MW
4/24/17

- Supporting Data
    a. Extraction Documentation
    b. Standard Documentation
    c. COCs

L 00092 - 132
BOOK PAGE

4/17/17 Sky Valley Education Center SOP Or P04-A

PCB wipes
OCE-009D

Time Ext.
945

Sample
92004717B1
L1
L2

17154100-N1
17154101-N1
17154102-N1
17154103-N1
17154104-N1
17154105-N1
17154106-N1
17154107-N1
17154108-N1

Hexane lot PN373
H_2SO_4 lot 52429
Copper powder Lot 90610

All Samples received 100 ml 87PCB0223171A Surrogate.
Samples 92004717L1 + L2 also received 100 ml
87PCB1024164A matrix spike.
Spike witness: [illegible]

Samples extracted with 40 ml hexane.
DW

A 10 ml aliquot of each sample was concentrated
to 2.5 ml for a final volume of 10 ml.
A 1 ml fraction received H_2SO_4 + Copper powder
cleanup.
DW

~~6/27/16~~ 6/27/16 1016/1260 PCB Stock
[87PCB062716A] in Hexane

250 ml Restek #32299 Aroclor 1016/1260 mix
Lot # A094884 200 ug/ml x 7/2019

1000 ml 87PCB011916A

Diluted to 10ml in Hexane
x 6/2017 DW

~~6/27/16~~ 6/27/16 1016/1260 PCB Initial Calibration
in Hexane

Std	Stock 87PCB062716A (ml)	Final Volume (ml)	Final PCB conc (pg/ul)	Final Surr. conc. (pg/ul)
[87PCB062716B]	5	1	25	2.5
C	10	1	50	5
D	20	1	100	10
E	50	1	250	25
F	100	1	500	50
G	200	1	1000	100
H	500	1	2500	250

x 6/2017 DW

~~6/27/16~~ 6/27/16 1016/1260 PCB Cont. Cal Solution
in Hexane

[87PCB062716I]

100 ml => 5 ml Hexane
87PCB062716A

x 6/2017 DW

8/30/16 PCB 1254 ICAL Stds.
in hexane

Std	Stock 87PCB021816A (ml)	Final Volume (ml)	Final Conc. (pg/ml)
[87PCB083016A]	5	1	25
B	10	1	50
C	20	1	100
D	50	1	250
E	100	1	500
F	200	1	1000

8/2017
~~8/2017~~
DW

9/19/16 PBDE Internal Standard @ 10 ng/mL
CP
[87PBDE091916A]

1mL

AccuStandard® 125 Market St. • New Haven, CT 06513 • USA
Tel. 203-786-5290 • www.accustandard.com
FBDE-5002S 1 mL
3-fluoro-2,2',4,4',6-pentabromodiphenyl ether
50 µg/mL in Isooctane
Lot: 209071222
Exp. Jul 24, 2019
FLAMMABLE

diluted to 5.0 mL in hexane

exp. 9/19/17

8/19/16 PCB 1260 Second Source Stock
@ 100 mg/ml

[87PCB081916J]

100 ml

EPA-1362
Lot: CK-1444
Exp: 05/31/2017
ULTRA
1 mL
Aroclor 1260 Solution
1 analyte(s) at 1000 µg/mL in isooctane (2,2,4-trimethylpentane)
250 Smith St, No Kingstown, RI 02852 USA
For Lab Use Only

⇒ 1ml Hexane
X 2/2017 DW

8/19/16 PCB 1260 Second Source Std
@ 100 µg/ml

[87PCB081916K]

10 ml ⇒ 10ml Hexane
87PCB081916J X 2/2017 DW

8/24/16 BNA Surrogate @ 100mg/mL
CP

[87BNA082416A]

500 mL

RESTEK
110 Benner Circle
Bellefonte, PA 16823
814-353-1300
31810
Warning
Lot# A0115813
OLC03.2 BVOA Deuterated Monitoring Compounds Mix
Expire : 09/2019 Store 10°C or colder
Full Label Information for this product is provided on the outside package.
For Laboratory Use Only
1 mL
Made in USA

Diluted to 10mL EtOAc
EtOAc Lot DN 794
X: ~~8/24/16~~ CP 8/24/16
8/24/17

[87BNA082416B]

Same as ~~[~~87BNA082416A (taken from same ampule).

CP 8/24/16

11/1/16 PCB Second Source
@ 100 ng/ml - PCB 1221 @ 200ng/ml

[87PCB110116A]

CLP-282-1
Lot: T-0009Y
Exp: 09/30/2019
ULTRA
1 mL
Aroclor 1221 Standard
3 analyte(s) at various concentrations in isooctane (2,2,4-trimethylpentane)
For Lab Use Only
250 Smith St, No Kingstown, RI 02852 USA

[87PCB110116B]

CLP-283-1
Lot: T-0010Y
Exp: 09/30/2019
ULTRA
1 mL
Aroclor 1232 Standard
3 analyte(s) at various concentrations in isooctane (2,2,4-trimethylpentane)
For Lab Use Only
250 Smith St, No Kingstown, RI 02852 USA

[87PCB110116C]

CLP-284-1
Lot: T-0018Y
Exp: 09/30/2019
ULTRA
1 mL
Aroclor 1242 Standard
3 analyte(s) at various concentrations in isooctane (2,2,4-trimethylpentane)
For Lab Use Only
250 Smith St, No Kingstown, RI 02852 USA

[87PCB110116D]

CLP-285-1
Lot: T-0033Y
Exp: 09/30/2019
ULTRA
1 mL
Aroclor 1248 Standard
3 analyte(s) at various concentrations in isooctane (2,2,4-trimethylpentane)
For Lab Use Only
250 Smith St, No Kingstown, RI 02852 USA

[87PCB110116E]

CLP-286-1
Lot: T-0034Y
Exp: 09/30/2019
ULTRA
1 mL
Aroclor 1254 Standard
3 analyte(s) at various concentrations in isooctane (2,2,4-trimethylpentane)
For Lab Use Only
250 Smith St, No Kingstown, RI 02852 USA

X: 5/2017
PW

L 00087 - 110
BOOK PAGE

2/23/17 PCB Surrogate Std.
@ 5ug/ml

[87PCB022317A]

Accustandard CLP-032R-WL-5X-50ML
Pesticide Surrogate mix
5ug/ml in Acetone
Lot 213071007 x 7/2023

AccuStandard®
203-786-5290
AccuStandard.com

CLP-032R-WL-5X-50ML
Lot: 213071007
Exp: Jul 09, 2023

Date Opened:

Pesticide Surrogate Mix
5.0 µg/mL in Acetone

x 2/23/18 DW

10/24/16 PCB 1016/1260 Matrix Spike
@ 40 ug/ml in acetone

[87PCB102416A]

1000 ml RESTEK 110 Benner Circle Bellefonte, PA 16823 Made in USA
Catalog# 32299
This product contains PCB's
Aroclor ® 1016/1260 Mix
200 ug/mL each in Isooctane
Lot# A094864 Exp. Date 07/2019 Store 25°C nominal

⇒ 5 ml Acetone

X 10/2017
DW

10/24/16 Low Level PCB 1016/1260 Spike
@ 4 ug/ml

[87PCB102416B]

200 ml RESTEK 110 Benner Circle Bellefonte, PA 16823 CS
Catalog# 32299
This product contains PCB's
Aroclor ® 1016/1260 Mix
200 ug/mL each in Isooctane
Lot #A094864 Made in USA
Exp. Date:07/2019 Store: 25°C nominal
FOR LABORATORY USE ONLY

⇒ 10 ml Acetone

X 10/2017
DW

10/24/16 PCB Instrument Blank
@ 100 pg/ml

[87PCB102416C]

200 ml 87PCB011916A ⇒ 10 ml Hexane

X 10/2016
DW

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

MP Rec'd 7/8/2013

ACCREDITED
ISO Guide 34 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA

ACCREDITED
ISO/IEC 17025 Accredited Testing Laboratory Certificate #3223.02

Certificate of Analysis

FOR LABORATORY USE ONLY-READ MSDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32299 Lot No.: A094864

Description : Aroclor ® 1016/1260 Mix
200µg/mL, Isooctane, 1mL/ampul

Container Size : 2 mL Pkg Amt: > 1 mL

Expiration Date : July 2019 Storage: 25°C nominal

Handling: This product contains PCB's

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	Aroclor 1016 CAS # 12674-11-2 Purity 99%	200.0 µg/mL	+/- 1.4182	µg/mL	Gravimetric
			+/- 4.2504	µg/mL	Unstressed
			+/- 6.9193	µg/mL	Stressed
2	Aroclor 1260 CAS # 11096-82-5 Purity ----%	202.0 µg/mL	+/- 1.4323	µg/mL	Gravimetric
			+/- 4.2929	µg/mL	Unstressed
			+/- 6.9885	µg/mL	Stressed

Solvent: Isooctane
CAS # 540-84-1
Purity 99%

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USA

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CERTIFICATE OF ANALYSIS

CATALOG NO: CLP-032R-WL-5X-50ML
DESCRIPTION: Pesticide Surrogate Mix
LOT: 213071007
SOLVENT: Acetone

EXPIRATION: Jul 9 , 2023
DATE CERTIFIED: Jul 9, 2013
SAMPLE SIZE: 50 mL
STORAGE CONDITION: Ambient
HAZARDS: HIGHLY FLAMMABLE

Refer to the MSDS for additional safety information

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	Cas Number	Purity % (GC/MS)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Decachlorobiphenyl	2051-24-3	99.8	5.012	5.002
TCMX	877-09-8	97.8	5.124 *	5.011

MP7/15/13

2 Components

* Weight compensated to 100% purity

1. All weights are traceable through NIST, Test No. 822-275872-11
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

For use in routine laboratory analysis.

Certified by: R. Cooper
Russ Cooper, QC Manager

OR-ORG/NO-001
Rev. 7/11

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

MP Rec'd 4/11/11

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USA

AccuStandard®, Inc.

Tel (203)786-5290
Fax (203)786-5287
Website AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: C-254S-TP
Description: Aroclor 1254
Lot: 211021334
Solvent: Isooctane

Date Certified: Feb 23, 2011
Expiration: Feb 23, 2021
Sample Size: 1 mL
Storage Condition: Ambient
Hazards: FLAMMABLE

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1254	11097-69-1	Tech	100.2	100.2

Reference Standard

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No.822/272103-05
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

For use in routine laboratory analysis.

See reverse side for additional information
Refer to the MSDS for additional safety information

Certified by: R. Cooper
Russ Cooper, QC Manager

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

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New Haven, CT 06513
USA

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CERTIFICATE OF ANALYSIS

Catalog No: C-242S-TP
Description: Aroclor 1242

Lot: B1020035
Solvent: Isooctane

Date Certified: Jan 10, 2012
Expiration: Jan 10, 2022
Sample Size: 1 mL
Storage Condition: Ambient
Hazards: HIGHLY FLAMMABLE

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1242	53469-21-9	Tech Mix	100.3	100.3

MP 7/15/13

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No.822/254480
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

For use in routine laboratory analysis.

See reverse side for additional information
Refer to the MSDS for additional safety information

Certified by: R. Cooper
Russ Cooper, QC Manager

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

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CERTIFICATE OF ANALYSIS

Catalog No: C-216S-TP
Description: Aroclor 1016
Lot: 211011126
Solvent: Isooctane
Hazards: HIGHLY FLAMMABLE - *Refer to SDS for safety info*

Danger 2

Date Certified: Jan 13, 2011
Expiration: Jan 13, 2021
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Included on ISO/IEC 17025 Scope of Accreditation: Yes

Included on ISO Guide 34 Scope of Accreditation: Yes

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1016	12674-11-2	Tech Mix	100.8	100.8

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] All weights are traceable through NIST, Test No. 822/272103-05

[2] Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values:
A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

See reverse side for additional information

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

Certificate of Analysis

ULTRA SCIENTIFIC
Analytical Solutions

Aroclor 1221 Solution

Product Number: CLP-282

Lot Number: T-0009Y Lot Issue Date: 18-Aug-2015 Expiration Date: 30-Sep-2019

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1221	011104-28-2	NT01017	200.0 ± 1.0 ng/mL
decachlorobiphenyl (BZ # 209)	002051-24-3	32453-47	20.0 ± 0.1 ng/mL
2,4,5,6-tetrachloro-m-xylene	000877-09-8	BN-09822PG	20.0 ± 0.1 ng/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15-30°C).

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ANAB ACCREDITED PROFICIENCY TESTING LABORATORY

ISO 9001
Registered
TUV USA, Inc.

William J. Leary
Quality Assurance Manager

Certificate of Analysis

ULTRA SCIENTIFIC
Analytical Solutions

TRIPLE ISO CERTIFICATION ULTRA ISO 17025 • ISO GUIDE 34 • ISO 9001

Aroclor 1232 Solution

Product Number: CLP-283

Lot Number: T-0010Y **Lot Issue Date:** 18-Aug-2015 **Expiration Date:** 30-Sep-2019

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1232	011141-16-5	NT01717	100.0 ± 0.5 ng/mL
decachlorobiphenyl (BZ # 209)	002051-24-3	32453-47	20.0 ± 0.1 ng/mL
2,4,5,6-tetrachloro-m-xylene	000877-09-8	BN-09822PG	20.0 ± 0.1 ng/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15-30°C).

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

William J. Leary
Quality Assurance Manager

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

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Certificate of Analysis

ULTRA SCIENTIFIC
Analytical Solutions

TRIPLE ISO CERTIFICATION ULTRA ISO 17025 • ISO GUIDE 34 • ISO 9001

Aroclor 1242 Solution

Product Number: CLP-284

Lot Number: T-0018Y **Lot Issue Date:** 18-Aug-2015 **Expiration Date:** 30-Sep-2019

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1242	053469-21-9	NT01020	100.0 ± 0.5 ng/mL
decachlorobiphenyl (BZ # 209)	002051-24-3	32453-47	20.0 ± 0.1 ng/mL
2,4,5,6-tetrachloro-m-xylene	000877-09-8	BN-09822PG	20.0 ± 0.1 ng/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15-30°C).

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

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William J. Leary
Quality Assurance Manager

Certificate of Analysis

ULTRA SCIENTIFIC
Analytical Solutions

TRIPLE ISO CERTIFICATION ULTRA ISO 17025 • ISO GUIDE 34 • ISO 9001

Aroclor 1248 Solution

Product Number: CLP-285

Lot Number: T-0033Y **Lot Issue Date:** 18-Aug-2015 **Expiration Date:** 30-Sep-2019

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1248	012672-29-6	NT01718	100.0 ± 0.5 ng/mL
decachlorobiphenyl (BZ # 209)	002051-24-3	32453-47	20.0 ± 0.1 ng/mL
2,4,5,6-tetrachloro-m-xylene	000877-09-8	BN-09822PG	20.0 ± 0.1 ng/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15-30°C).

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ANAB ACCREDITED TESTING LABORATORY

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William J. Leary
Quality Assurance Manager

Certificate of Analysis

ULTRA SCIENTIFIC
Analytical Solutions

TRIPLE ISO CERTIFICATION ULTRA ISO 17025 • ISO GUIDE 34 • ISO 9001

Aroclor 1254 Solution

Product Number: CLP-286

Lot Number: T-0034Y **Lot Issue Date:** 18-Aug-2015 **Expiration Date:** 30-Sep-2019

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1254	011097-69-1	NT01719	100.0 ± 0.5 ng/mL
decachlorobiphenyl (BZ # 209)	002051-24-3	32453-47	20.0 ± 0.1 ng/mL
2,4,5,6-tetrachloro-m-xylene	000877-09-8	BN-09822PG	20.0 ± 0.1 ng/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15-30°C).

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

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William J. Leary
Quality Assurance Manager

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USA

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Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: C-260S-TP
Description: Aroclor 1260

Lot: 212111284
Solvent: Isooctane

Date Certified: Nov 14, 2012
Expiration: Nov 14, 2022
Sample Size: 1 mL
Storage Condition: Ambient
Hazards: HIGHLY FLAMMABLE

[X] Included on ISO/IEC 17025 Scope of Accreditation
[X] Included on ISO Guide 34 Scope of Accreditation

Component	CAS #	Purity % (GC/FID)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
Aroclor 1260	11096-82-5	Tech Mix	100.0	100.0

MP 7/15/13

AccuStandard follows U.S. conventions in reporting numerical values on both certificates and labels:

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

1. All weights are traceable through NIST, Test No.822-275872-11
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty associated with the gravimetric values reported on this certificate is ±0.24%. The CRM Uncertainty calculated for this product is ±5%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.
3. A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

For use in routine laboratory analysis.

See reverse side for additional information
Refer to the MSDS for additional safety information

Certified by: R. Cooper
Russ Cooper, QC Manager

AccuStandard is accredited to ISO Guide 34, ISO/IEC 17025 and certified to ISO 9001

EPA Region 10, 1200 Sixth Avenue, Seattle, WA 98101

Sample Custody & Analysis Required Form

EPA Manchester Laboratory, 7411 Beach Drive East, Port Orchard, WA 98366, 360-871-8700

Form Effective Date: July 2005

Revision 1

Project Name: Ky Valley Education Center	Project Code: OCE-0070	Method of Shipment/carrier	Airbill Number (if known prior to sealing):
Account Code: 2017 2018 BIDP501 E50	EPA Project Manager/phone number: Michelle Mullins	Check all that apply: ☐ Enforce/Custody ☐ Possible Toxic/Hazardous ☐ Data Confidential	

Sampler Names (Print & Sign). Mark (R) after name of principal recorder.

Kendall Moore

If applicable, circle the set of selected metals:

Al	Sb	As	Ba	Be
B	Cd	Ca	Cr	Co
Cu	Fe	Pb	Mg	Mn
Mo	Ni	K	Se	Ag
Na	Sn	Tl	V	Zn

(see reverse for more to add/circle)

① Matrix Codes:
10 Water/Liquid (Total)
20 Water/Liquid (Filtered)
40 Sediment/Soil/Solid/Bulk
70 Tissue
80 Oil/Solvent
44 Air filter
42 Wipe/Swab[1]
00 _____

[1] PCB wipe is to be 10cm x 10cm (100 cm²)

#C ② enter the number of containers for each preservative type followed by the appropriate preservation code P ③:

A - HCl
B - HNO_3
C - NaOH
D - H_2SO_4
E - $Na_2S_2O_3$
F - ascorbic acid[2], then HCl
G - $Na_2S_2O_3$+EDTA
H - EDTA
N - No chemical preservation
P - Bottles pre-preserved at lab
T - To be preserved at the lab

[2] $Na_2S_2O_3$ if required by plan.

W - _____

☐ Check here if the cooler is iced

④ Enter the letter or range of letters on each container for each group of containers with the same preservative type. Each container for each unique sample number must have a unique letter on it.

Laboratory: see the applicable QAPP, SOW and/or Analytical Support Request for specific methods and detection, reporting, and/or quantitation limits

Sampler's comments for the laboratory:

EPA Sample number (Yr Wk Sequence)	Sampling Date & Time (Yr Mo Day Time)	Matrix ①	#C ②	P ③	Sampler Initials	Sample/Station Description/Field Measurements	Organics (see reverse): VOA	BNA	Pest	PCB	PAH	Metals (see reverse): CLP	Selected	Mercury	Micro (see reverse): E. Coli	F. Coliform	T. Coliform	General Chemistry (see reverse): TSS	TDS	BOD 5	NO2+NO3	Oil & Grease	Asbestos	Additional Write in Analyses (see reverse)
17 15 41 00	17 04 11 1345	42	1	N	KM	Blank				X														
41 01						Finney Electrical room floor																		
41 02						" " " wall																		
41 03						Large Gym Electrical rm. floor																		
41 04						" " " " wall																		
41 05						Small gym Electrical rm. transformer																		
41 06						" " " " floor																		
41 07						" " " " wall																		
41 08						Pod Building Electrical Rm. floor																		

Chain of Custody Record

Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
Kendall Moore	4/13/17	1130			
Relinquished by (Signature)	Date	Time	Received by (Signature)	Date	Time
Relinquished by (Signature)	Date	Time	Received by Mobile Lab for Field Analysis (Signature)	Date	Time
Shipped by (Signature)	Date	Time	Received for Lab by (Signature)	Date	Time
			D Nuss	4/13/17	11:30

Receiving Laboratory Information Condition of Samples upon Receipt at Lab:

Good - Hand Delivered

Custody Seals Intact: ☐ yes ☐ no ☒ none

Distribution: White - Laboratory Copy; Yellow - Regional Sample Control Center (RSCC) Copy; Pink - Field or Office Copy

Quantitation Report (Not Reviewed)

Data Path : J:\Organics\Minerva\MINERVA 2017 DATA\M041817PCBDW\
Data File : M041817a04.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 18 Apr 2017 14:36 pm
Operator : DWOOD
Sample : 17154108
Misc : Sky Valley PCB Wipe 10mL fv
ALS Vial : 0 (Sig #1); 4 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS1.E
Integration File signal 2: events2.e
Quant Time: Apr 24 15:50:04 2017
Quant Method : J:\Organics\Minerva\Methods\M033017PCB1254_41717.M
Quant Title : AROCLOR 1016/1260 ANALYSIS
QLast Update : Mon Apr 24 15:30:48 2017
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. : 2 uL
Signal #1 Phase : CLPest Signal #2 Phase: CLPest2
Signal #1 Info : .32 Signal #2 Info : .32

Data Not Reported
Carryover from Sample 17154103 Rerun

Compound	RT#1	RT#2	Resp#1	Resp#2	pg/uL	pg/uL
System Monitoring Compounds						
1) S2 tmx (1)	0.000	5.096	0	3616	N.D.	NoCal
7) S2 dcb	18.040	13.824	117518	13045	NoCal	NoCal
Target Compounds						
2) L1 1254 -1	10.111	6.836	9050	26917	27.191	31.140
3) L1 1254-2	11.047	7.160	3989	22715	23.015	50.514 #
4) L1 1254-3	11.432	7.750	12953	51352	25.482	65.316 #
5) L1 1254-4	11.752	8.121	12919	38856	31.136	53.039 #
6) L1 1254-5	11.937	8.407	11590	28591	45.635	47.144
Sum 1254 -1			50501	168432	152.458	247.152
Average 1254 -1					30.492	49.430

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.